CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, November 30, 1905.

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CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.), and Bidding Sheets (B. S.) may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close.	Work.	Place.	On file.	See issue.
Dec.				
*1	Crusher plant	Portland, Me.	S.	11-23
*2	Drill hall	Cheyenne, Wyo.	P. & S.	11-9
2	Concrete wall	Key West, Fla.	S.	10-19
2	Concrete wall	Cuba	S.	10-19
*5	Dam	Billings, Mont	P. & S.	9-14
*5	City lighting	Philadelphia, Pa.	S.	11-23
*6	Intake pipe	Auburn, N. Y.	S.	11-16
9	Electric elevator	Norfolk, Va.	S.	11-16
*10	Railroad	Brookville & Mahoning	S.	11-23
*15	Irrigation canals	Billings, Mont.	P. & S.	11-23
*15	Telephone system	Billings, Mont.	P. & S.	11-23
*18	Gas producer	Winnipeg, Man.	S.	11-16
*29	Irrigation canal	S. F'ncisco, Cal.	P. & S.	11-23
*	Steel rolled beams	New York	S.	10-12
Jan.				
*2	Water system	Manila	P. & S.	9-21
*12	Sewer system	Manila	P. & S.	9-21
16	Pipe sewers	Boston, Mass.	S.	11-23

*Work advertised in Engineering News.

NOTE—We are desirous of securing specifications and bidding sheets (and plans when not too bulky) of pending work for file in our New York office for the benefit of contractors or others who may be interested in the work. If more sets than one are sent us we shall be pleased to distribute these to contractors who ask for them. When the work is advertised in Engineering News a note that the plans are filed with us will be added to the advertisement without cost.

LIST OF CONTRACTS PENDING.

Bids close. Work. Place. See issue.

LIGHT, HEAT AND POWER PLANTS.

Dec. 2. Lighting system, Ft. D. A. Russell, Wyo. ... Nov. 2
Advertised, Eng. News, Nov. 2 to 23.
Dec. 2. Water power, Porto Rico ..... Aug. 17
Advertised, Eng. News, Aug 17 to Sept 14.
Dec. 4. Lighting plant, Abbeville, La. ..... Nov. 23
Dec. 5. City lighting, Philadelphia, Pa. ..... Nov. 23
Advertised, Eng. News, Nov. 23.
Dec. 7. Electric plant, Sparta, Ga. ..... Nov. 23
Dec. 16. Electric plant, Brazil ..... Nov. 9
Dec. 18. Gas plant, Winnipeg, Man. ..... Nov. 16
Advertised, Eng. News, Nov. 16 and 23.

BRIDGES.

Dec. 2. Bridges, Wichita, Kan. ..... Nov. 23
Dec. 4. Bridge, Gulfport, Miss. ..... Nov. 23
Dec. 4. Bridges, Huntington, Ind. ..... Nov. 30
Dec. 4. Trestle, Perth Amboy, N. J. ..... Nov. 30
Dec. 4. Bridge, Rushville, Ind. ..... Nov. 30
Dec. 5. Bridge, Reidville, S. C. ..... Nov. 30
Dec. 5. Concrete bridge, Santa Rosa, Cal. ..... Nov. 30
Dec. 6. Bridge, Atlantic City, N. J. ..... Nov. 23
Advertised, Eng. News, Nov. 23 and 30.
Dec. 7. Bridges, Fargo, N. Dak. ..... Nov. 30
Dec. 7. Bridges, steel, Girard, Kan. ..... Nov. 30
Dec. 7. Bridge, New York, N. Y. ..... Nov. 30
Dec. 8. Bridges, Sioux Falls, S. Dak. ..... Nov. 23
Dec. 9. Bridges, New York, N. Y. ..... Nov. 30
Dec. 15. Bridge, Milwaukee, Wis. ..... Nov. 23
Dec. 18. Bridge, steel, Wilson, N. C. ..... Nov. 30
Advertised, Eng. News, Nov. 30 and Dec. 7.
Dec. 18. Bridge, Oklahoma, Okla. ..... Nov. 30
Dec. 19. Bridge, Cambridge, O. ..... Nov. 30
Jan. 1. Steel bridge, Pensacola, Fla. ..... Sept. 28
Jan. 1. Bridge, steel, Pensacola, Fla. ..... Nov. 2
Jan. 2. Steel bridge, Duluth, Minn. ..... Nov. 30
Jan. 23. Bridge, Belgium ..... Nov. 2

BUILDINGS.

Nov. 30. Concentrating plant (Mfg. Plants), Comer, Ore. ..... Nov. 16
Dec. 2. Buildings, Philadelphia, Pa. ..... Nov. 2
Dec. 2. Electric fixtures, Burlington, Vt. ..... Nov. 30
Dec. 2. Drill hall, Cheyenne, Wyo. ..... Nov. 9
Advertised, Eng. News, Nov. 9 to Dec. 7.
Dec. 2. Court-house, Channing, Tex. ..... Nov. 23
Dec. 4. Electric lighting, New York, N. Y. ..... Nov. 23
Dec. 4. School, Wallingford, Conn. ..... Nov. 23
Dec. 4. School, New York, N. Y. ..... Nov. 30
Dec. 4. Plumbing, etc., Elizabeth, Va. ..... Nov. 16
Dec. 5. Hospital, Paris, Tex. ..... Nov. 23
Dec. 6. School, Monticello, Ind. ..... Nov. 16
Dec. 6. Buildings, Baltimore, Md. ..... Nov. 16
Dec. 6. Church, Beaumont, Tex. ..... Nov. 30
Dec. 6. School, Baltimore, Md. ..... Nov. 30
Dec. 7. Buildings, Mt. Pleasant, Mich. ..... Nov. 16
Dec. 7. School house, Laurel, Miss. ..... Nov. 9
Dec. 8. Y. M. C. A. building, Montgomery, Ala. Nov. 16
Dec. 9. Electric elevator, Norfolk, Va. ..... Nov. 16
Dec. 10. Hotel, Springfield, Mo. ..... Nov. 30
Dec. 11. Library, Bloomington, Ind. ..... Nov. 23
Dec. 11. Dormitory, Gainesville, Fla. ..... Nov. 23
Dec. 12. Court-house, New York, N. Y. ..... Nov. 30
Dec. 12. Court-house, Fairmont, Minn. ..... Nov. 16
Dec. 12. Capitol building, Bismarck, N. Dak. ..... Oct. 5
Dec. 14. School, Humboldt, Tenn. ..... Nov. 9
Dec. 15. Bank building, Conway, S. C. ..... Nov. 23
Dec. 15. Stable, Ft. Meade, S. Dak. ..... Nov. 23
Advertised, Eng. News, Nov. 23 and 30.
Dec. 16. Building, Lincoln, Neb. ..... Nov. 30
Dec. 18. Building, Ft. Leavenworth, Kan. ..... Nov. 30
Dec. 20. School, Sanford, N. C. ..... Nov. 23
Dec. 20. Experiment station, Annapolis, Md. ..... Nov. 16
Dec. 22. Heating, etc., Prescott, Ariz. ..... Nov. 30
Advertised, Eng. News, Nov. 30 to Dec. 28.
Jan. 2. Buildings, Riverside, Cal. ..... Nov. 30
Jan. 4. Post-office, Natchitoches, La. ..... Nov. 16
Advertised, Eng. News, Nov. 16 and 23.
Jan. 4. Library, Bloomington, Ind. ..... Nov. 23
Advertised, Eng. News, Nov. 23.
Jan. 5. Heating, etc., Washington, D. C. ..... Nov. 30
Jan. 10. Post-office, Reno, Nev. ..... Nov. 16
Jan. 15. Building, So. McAlester, Ind. T. ..... Nov. 23
Jan. 31. Library plans, Toronto, Ont. ..... Nov. 23

WATER SUPPLY AND IRRIGATION.

Dec. 1. Water-works, Ballinger, Tex. ..... Nov. 23
Dec. 4. Water and light plant, Marksville, La. ..... Nov. 23
Dec. 4. Artesian well, St. Paul, Minn. ..... Nov. 30
Advertised, Eng. News, Nov. 23.
Dec. 5. Bond sale, Marksville, La. ..... Nov. 23
Advertised, Eng. News, Nov. 23.
Dec. 5. Yellowstone dam, Billings, Mont. ..... Sept. 14
Advertised, Eng. News, Sept. 14 to Oct. 26.
Dec. 6. Tunnel, Buffalo, N. Y. ..... Nov. 30
Dec. 6. Intake pipe, Auburn, N. Y. ..... Nov. 16
Advertised, Eng. News, Nov. 16 to Dec. 7.
Dec. 6. Water-works, Hammond, La. ..... Nov. 9
Advertised, Eng. News, Nov. 9 to Dec. 7.
Dec. 15. Tank and tower, Lovington, Ill. ..... Nov. 30
Dec. 15. Well, Kirkwood, Ill. ..... Nov. 30
Dec. 15. Irrigation canal, etc., Billings, Mont. ..... Oct. 19
Advertised, Eng. News, Oct. 19 to Dec. 14.
Dec. 18. Water and light plant, Abbeville, La. ..... Nov. 23
Advertised, Eng. News, Nov. 23 to Dec. 14.
Dec. 18. Pumping engine, Cleveland, O. ..... Nov. 30
Advertised, Eng. News, Nov. 30.
Dec. 29. Irrigation canal, San Francisco, Cal. ..... Nov. 2
Advertised, Eng. News, Nov. 2 to Dec. 28.
Jan. 2. Water-works, Philippines ..... Sept. 21
Advertised, Eng. News.

If you want to sell any of your plant, advertise it in ENGINEERING NEWS. Other contractors may be ready for work where they can use it. Don't keep your money tied up in idle equipment.

SEWERAGE.

Nov. 30. Sewer system, Baton Rouge, La. ..... Oct. 26
Dec. 2. Storm sewer, Norwood, O. ..... Nov. 30
Dec. 4. Pipe sewer, Brenham, Tex. ..... Nov. 23
Dec. 5. Sewer, Akron, O. ..... Nov. 30
Dec. 5. Sewers, Trenton, N. J. ..... Nov. 30
Dec. 6. Pipe sewer, South St. Paul, Minn. ..... Nov. 30
Dec. 6. Intercepting sewer, Chicago, Ill. ..... Nov. 9
Dec. 11. Sewerage, Sheldon, Ia. ..... Oct. 12
Dec. 11. Sewers, South Brooklyn, O. ..... Nov. 23
Dec. 16. Pipe sewers, Boston, Mass. ..... Nov. 23
Dec. 18. Sewage plant, Fort Oglethorpe, Ga. ..... Nov. 30
Advertised, Eng. News, Nov. 30 to Dec. 21.
Dec. 19. Pipe sewer, Independence, Kan. ..... Nov. 23
Dec. 20. Sewerage, etc., Bristol, Pa. ..... Nov. 16
Advertised, Eng. News, Nov. 16 and 23.
Dec. 21. Sewers, water mains, Muskogee, Ind. T. Nov. 30
Jan. 12. Sewer system, Philippines ..... Sept. 21
Advertised, Eng. News.

STREETS AND ROADS.

Nov. 30. Paving, Baton Rouge, La. ..... Oct. 26
Nov. 30. Macadamizing, Delaware, O. ..... Nov. 9
Dec. 1. Paving, etc., Cincinnati, O. ..... Nov. 16
Dec. 4. Road, Union, Ind. ..... Nov. 23
Dec. 4. Paving, Cincinnati, O. ..... Nov. 23
Dec. 4. Walks, etc., New York, N. Y. ..... Nov. 30
Dec. 4. Road, Brookville, Ind. ..... Nov. 30
Dec. 4. Paving, San Leandro, Cal. ..... Nov. 30
Dec. 5. Paving, Akron, O. ..... Nov. 30
Dec. 5. Road, Brownstown, Ind. ..... Nov. 23
Dec. 6. Road, Paoli, Ind. ..... Nov. 23
Dec. 8. Road, Cincinnati, O. ..... Nov. 16
Dec. 8. Roads, Live Oak, Fla. ..... Nov. 30
Dec. 9. Road, Princeton, Ind. ..... Nov. 30
Dec. 11. Roads, Knox, Ind. ..... Nov. 30
Dec. 12. Paving, Shelbyville, Ind. ..... Nov. 30
Dec. 12. Paving, Cincinnati, O. ..... Nov. 30
Dec. 14. Paving, Lakewood, O. ..... Nov. 30

MISCELLANEOUS CONTRACTS.

Dec. 1. Electric Ry. construction, Richmond, Va. Nov. 23
Dec. 1. Cement piles, New York, N. Y. ..... Nov. 23
Dec. 1. Crusher plant, Portland, Me. ..... Nov. 23
Advertised, Eng. News, Nov. 23.
Dec. 2. Dredge, Chicago, Ill. ..... Nov. 30
Dec. 2. Concrete quay wall, Cuba ..... Oct. 19
Dec. 2. Concrete wall, Key West, Fla. ..... Oct. 19
Dec. 4. Excavation, Council Bluffs, Ia. ..... Nov. 30
Dec. 4. Wire fence, Fort Myer, Va. ..... Nov. 30
Dec. 4. Riprap stone, Washington, D. C. ..... Nov. 30
Dec. 4. Wall, New York, N. Y. ..... Nov. 30
Dec. 5. Ferry house, New York, N. Y. ..... Nov. 30
Dec. 5. Fire hose, New York, N. Y. ..... Nov. 30
Dec. 5. Machine tools, Washington, D. C. ..... Nov. 9
Dec. 5. Drainage ditch, Fort Dodge, Ia. ..... Nov. 16
Dec. 5. Cement, lamps, pipe, etc., Wash., D. C. Nov. 23
Dec. 5. Sand, cement, etc., Washington, D. C. Nov. 16
Dec. 6. Riprap jetty, etc., New York, N. Y. ..... Nov. 16
Advertised, Eng. News, Nov. 16 to Dec. 7.
Dec. 6. Removing snow, ice, Brooklyn, N. Y. ..... Nov. 30
Dec. 7. Wharf, Charleston, S. C. ..... Nov. 9
Advertised, Eng. News, Nov. 9 to Nov. 30.
Dec. 8. Pipe, fittings, etc., Washington, D. C. ..... Nov. 23
Dec. 8. Boat repairs, New York, N. Y. ..... Nov. 30
Dec. 10. 21-mile Ry., Brookville & Mahoning Ry. Nov. 23
Advertised, Eng. News, Nov. 23 and 30.
Dec. 10. Elevator, tools, Washington, D. C. ..... Nov. 16
Dec. 11. Dredging, New York, N. Y. ..... Nov. 23
Advertised, Eng. News, Nov. 23 to Dec. 14.
Dec. 11. Garbage plant, Detroit, Mich. ..... Nov. 30
Dec. 12. Ditch work, Alexandria, Minn. ..... Nov. 30
Dec. 12. Lamps, generator, etc., Wash., D. C. ..... Nov. 16
Dec. 12. Dam, Wheeling, W. Va. ..... Nov. 9
Advertised, Eng. News, Nov. 9 to Dec. 14.
Dec. 13. Iron fence, New York, N. Y. ..... Nov. 30
Dec. 15. Telephone system, Billings, Mont. ..... Nov. 2
Advertised, Eng. News, Nov. 2 to Dec. 14.
Dec. 15. Railways, Philippines ..... Sept. 21
Dec. 13. Brass goods, pipe, Vancouver, B. C. ..... Nov. 16
Dec. 15. Fire engine, Superior, Wis. ..... Nov. 30
Dec. 15. Fire alarm system, Seymour, Ind. ..... Nov. 30
Dec. 18. Metal work, Philadelphia, Pa. ..... Nov. 23
Advertised, Eng. News, Nov. 23 and 30.
Dec. 18. Chanoine wickets, Pittsburg, Pa. ..... Nov. 23
Advertised, Eng. News, Nov. 23 to Dec. 21.
Dec. 22. Dredging, etc., Richmond, Va. ..... Nov. 23
Advertised, Eng. News, Nov. 23 to Dec. 21.
Dec. 26. Machine, pipe, etc., Washington, D. C. Nov. 30
Dec. 26. Machine tools, etc., Washington, D. C. ..... Nov. 30
Dec. 27. Lock, dams, wall, Chicago, Ill. ..... Nov. 2
Advertised, Eng. News, Nov. 2.
Dec. 29. Wharf, Fort Monroe, Va. ..... Nov. 30
Jan. 1. Statue, Indianapolis, Ind. ..... July 20
Advertised, Eng. News, July 20.
Jan. 2. Railway, Chile ..... Aug. 24
Advertised, Eng. News, Nov. 9 to Dec. 28.
Jan. 4. Garbage crematory, Lexington, Ky. ..... Nov. 30
Advertised, Eng. News, Nov. 30 to Dec. 28.
Jan. 9. Wharf work, New Zealand ..... Nov. 2
Jan. 12. Ditch work, Glencoe, Minn. ..... Nov. 30
May 1. Steel deck, Chile ..... Nov. 9

RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

ATCHISON, TOPEKA & SANTA FE.—It is reported from San Francisco, Cal., that the California Northwestern, the A., T. & S. F., and the railroad interests controlled by E. H. Harriman have reached an agreement to build but one line from Eureka to San Francisco, Cal. These companies may also build a joint line from Willits to Eureka, about 125 miles long. The California Northwestern now operates a railway from Tiburon, seven miles distant from San Francisco, to Willits, 138 miles. The proposed Eureka-Willits extension will be a costly contract due to the number of tunnels that must be bored.

BROOKVILLE & MAHONING VALLEY.—Specifications for the construction of about 21 miles of railroad for this company may be seen at office of Engineering News, 220 Broadway, New York. Bids are asked until Dec. 10, as is stated in our advertising columns.

BALTIMORE & OHIO.—The Baltimore & Ohio Railroad Equipment Co. has been incorporated in Maryland with an authorized capital stock of $1,000,000 by H. R. Preston, C. W. Rhodes, George M. Shriver and C. W. Woolford, all of Baltimore, Md., and Andrew E. Sanborn, Wilmington, Del. This company is an adjunct of the Baltimore & Ohio Railroad Co., and will purchase locomotives, rolling stock, etc.

BUFFALO & SUSQUEHANNA.—Surveys are being run, it is said, by this company for a tunnel through Hog Back mountain in Potter County, Pa. Estimated cost, $1,000,000 to $2,000,000. H. Herden, Galeton, Pa., is Ch. Engr.

CHESAPEAKE & OHIO.—C. E. Doyle, Gen. Mgr., Richmond, Va., according to Louisville report, has announced that by this date next year the entire Cincinnati division, 156 miles long, from Louisville to Russell, Ky., will be relaid with 90-lb. and 100-lb. rail. F. L. Cabell, at Richmond, is Engr. M. of W.

CINCINNATI SOUTHERN.—W. K. OLIVER & CO., of Chattanooga, Tenn., have been awarded the contract for construction of 90 miles of railway for this company.

CENTRAL R. R. OF ARKANSAS.—Contract for building first 35 miles of line has been awarded to W. W. GARDNER, of Ola, Ark.

COLORADO & SOUTHERN.—Henry I. Seaman, of Denver, Colo., is said to be interested in organization of a company which will build a 12-mile tunnel for the Colorado & Southern Co. in Clear Creek and Grand Counties. H. W. Cowan, at Denver, is Ch. Engr. of the C. & S.

CINCINNATI, NEW ORLEANS & TEXAS PACIFIC.—The contract for building 12 miles of second track from Pine Knot to Flat Rock, Ky., has been awarded to W. J. OLIVER & CO., of Knoxville, Tenn.

It is reported that the line between Somerset, Ky., and Oakdale, Tenn., 83 miles, will be double-tracked. C. C. Harvey, at New Orleans, La., is Gen. Mgr.

COLORADO, OKLAHOMA CENTRAL & NEW ORLEANS.—The UNITED STATES CONSTRUCTION CO., of Trinidad, Colo., has contract for building this railway, it is reported. L. L. Morrison is Pres. As noted on Nov. 2, the Colorado, Oklahoma Central & New Orleans Ry. Co. was incorporated in Oklahoma to build a railway from the proposed terminus of the Guthrie, Fairview & Western Ry., near Fairview, Okla., via Selling, Cestos, Mutual, Woodward, Beaver and Guymon, to Trinidad, Colo. The incorporators are the projectors of the Guthrie, Fairview & Western, including W. S. McCaull, of Kansas City, Mo. Capital, $20,000,000.

DELAWARE & HUDSON.—Surveys are made for the proposed new line between South Wilkes-Barre and Yatesville, Pa. Jas. MacMartin, Albany, N. Y., is Ch. Engr.

DENVER, YELLOWSTONE & PACIFIC.—Contracts will be awarded soon for construction of this railway. It will extend from Denver, Colo., to Seattle, Wash. Fenimore Chatterton, of Cheyenne, Wyo., is interested.

DENVER, NORTHWESTERN & PACIFIC.—Contract for new tunnel at Denver has been awarded, it is reported, to C. RYAN, of Denver, Colo. W. A. Deuel is Gen. Mgr. and H. A. Sumner, Ch. Engr., at Denver. Cost, about $30,000.

DENVER, ENID & GULF.—Edward L. Peckham, Gen. Mgr., at Enid, Okla., has announced that "the citizens of Barber County, Kan., have voted the sum of $100,000 as a bonus for the construction of the Denver, Enid & Gulf through that county. The connection with the Union Pacific line in that state will be made either at Hays City or Russell. We expect to complete the extension of our line from Enid to Cherokee, where connection is made with the Orient line, by the first of December."

ERIE.—Contracts have been let for construction of line from Harrison to Homestead, N. J., to be known as the "tunnel route," as follows: McMULLEN & McDERMOTT, of Newark, N. J., for construction of roadbed and bridges; the DRAKE & STRATTON CO., of Philadelphia, for 1,100-ft. bridge, with two draws, over Hackensack River; H. S. KERBAUGH, INC., of Philadelphia, and the B. M. & J. E. SHANLEY CO., of Newark, have contracts for raising the grade of the present line from Harrison to a point west of Waverly.

GREEN BAY, OSHKOSH, MADISON & SOUTHWESTERN.—McDONALD & O'CONNOR, of Grand Rapids, Mich., have contract for grading line for this company.

ILLINOIS CENTRAL.—W. J. Harahan, fourth vice-Pres., has confirmed report that the company contemplates building a connecting line from Corinth, Miss., to Haleyville, Ala., 75 miles, construction of which depends upon obtaining franchises at Birmingham. A. S. Baldwin, Ch. Engr., has charge of the propostion, bids for which were received recently.

KENTUCKY.—J. F. Allen, 41 East Fourth St., Cincinnati, O., has made survey for a railroad from McKinney, Ky., to Columbia.

MOREHEAD & NORTHFORK.—This company has been incorporated in New Jersey with $500,000 capital, to develop property owned by the Clearfield Lumber Co., Inc., in Roan and Morgan Counties, Ky. William M. McCormick, of Philadelphia, Pa.; John W. Wrigley, of Clearfield, Pa., and Lewis Starr, of Camden, N. J., are the incorporators.

NORTH CAROLINA CONNECTING RY.—T. F. Whittelsey, Gen. Mgr. of the Mobile, Jackson & Kansas City Ry., Mobile, Ala., and Pres. of the N. C. Connecting Ry. Co., states that this railway will be about 90 miles long. This was noted on Nov. 9. The line will develop the timber and agricultural resources of North Carolina, connecting the principal railway trunk lines with cross-country lines. T. F. Whittelsey, Mobile, Ala., is Pres.; D. J. Nysewander, first vice-Pres., Homeville, Va.; D. W. Gunn, second vice-Pres., Roanoke, Va.; S. P. Douglas, Secy. and Auditor; R. H. Hood, Treas., and W. H. Hood, Director, all of Henderson, N. C.

NORTHERN PACIFIC.—A line will be constructed from the Bear Creek Coal Mines in Big Horn County, Wyo., to Cook City, Mont. E. J. Pearson, St. Paul, Minn., is Ch. Engr.

OKLAHOMA CITY & TEXAS.—At recent meeting of company an appropriation was made for the final survey of the railway. The directors are G. B. Stone, Pres., Oklahoma City; H. W. Prouty, vice-Pres.; Eugene Willoughby, Secy.-Treas., both of Chicago; W. W. Bierce, of Oklahoma City, and H. R. Nickerson, of New York City.

PINEY RIVER & LOUP CREEK.—Contract has been awarded to T. J. SWIFT & CO., of Macdonald, W. Va., for building a section of this railway. S. Dixon is Pres., at Macdonald, W. Va.

PORT ANGELES & OLYMPIA.—This company has been incorporated with capital stock of $4,000,000 to take over the Port Angeles & Eastern Ry., now in the hands of a receiver, and construct the road to Olympia. The company is independent of any connection with trans-continental interests, but will effect a juncture with the Northern Pacific Ry. Lester Turner, Jacob Furth, W. D. Hoffus, of Seattle; A. A. Arthur, of New York; and M. J. Corrigan, of Port Angeles, Wash., are the incorporators of the new railroad.

SOUTHERN INDIANA. — The Wabash River bridge on the Chicago extension is expected to be finished by the end of the year, and then the line will be operated as far north as Humrick, Ill. Tracklaying is in progress on the Chicago Southern Ry. (the Terre Haute and Chicago extension), and is expected to be completed in January. Work has also been commenced on the extension from Blackhawk east to Indianapolis, about 70 miles, and this line will be completed before the end of 1906. All the bridges will be of stone, concrete or steel, and the company has purchased 75 acres of land for terminal purposes in Indianapolis. E. H. Pfafflin, Chicago, is Engr. of Way and Structures.

SPOKANE & COLUMBIA RIVER RY. & NAVIGATION CO.—This company has awarded the contract for building 63 miles of its line from the Columbia River to Fletcher, Adams County, Wash., to M. P. ZINDORF, of Seattle, Wash., it is reported. The road is projected from Spokane to the Columbia River, passing through Fletcher and Connell. E. W. Swanson is Secy. at Spokane, Wash.

VIRGINIA & CAROLINA COAST.—J. T. WHITE & CO., 43 Exchange Pl., New York City, have contract for construction of this railway. It is being built by a syndicate for the purpose of exploiting over 500,000 acres of timber lands in Virginia and North Carolina. It will extend 142 miles, connecting the Suffolk & Carolina Railroad on the north and the Newbern, Oriental & Western on the south. The consolidation of the three systems will form a through a line from Norfolk to Newbern, N. C., and a new line will extend from Newbern to Beaufort, N. C. Previously noted.

VALE & MALHEUR VALLEY.—Financial arrangements are reported to be made for building this railway. Vale, Ore., may vote $20,000 bonus. Stephen Carver, of Chinook, Mont., is interested. Elmer A. Clark is Pres.; J. W. McCulloch is vice-Pres.; F. Petrie, Secy., and M. G. Hope, Treas., all of Vale, Ore. Capital is $150,000. Construction may be begun soon.

WISCONSIN CENTRAL.—H. P. BALCH, of Minneapolis, Minn., has secured the contract for grading 112 miles from Duluth to Ladysmith, Wis., for the Superior & Southeastern Ry., a Wisconsin Central extension. McINTOSH BROS., of Milwaukee, Wis., will finish the Owen & Northern Ry., a connecting line, by Jan. 1.

ELECTRIC RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

GREENSBURG, PA.—The Greensburg & Herminie Ry. Co., recently chartered, will build an electric railway between these points in Westmoreland County, Pa. George F. Huff, Harry L. Bovard and L. B. Huff, of Greensburg, are interested. Mr. L. B. Huff is Pres. of the Pittsburg, McKeesport & Greensburg Ry. Co., Barclay Bldg., Greensburg.

OXFORD, PA.—Contracts for equipment have been awarded by the Oxford, West Grove & Avondale Electric Ry. Co. for its proposed line. Thomas E. O'Connell, of Avondale, Pa., is interested in the project.

BALTIMORE, MD.—We are advised that the Baltimore & Frederick Electric Ry. Co. has practically completed surveys for its line and has obtained nearly all necessary right-of-way. It will be 53 miles long, extending from Baltimore to Frederick, by way of Hebbville, Randallstown, Northbranch, Eldersburg, Winfield, Oak Orchard, Unionville, Libertytown and other towns. Capital is secured. Contracts will be let about Jan. 1, 1906. James E. Ingraham, Jr., Maryland Telephone Bldg., Baltimore, is Pres., and Westinghouse, Church, Kerr & Co., 10 Bridge St., New York City, are the Engrs. This railway was previously noted.

WHEELING, W. VA.—The Wheeling Traction Co. plans to spend about $50,000 in improvements south of this city. George O. Nagle is Gen. Mgr., at Wheeling.

GEORGETOWN, S. C.—We are informed that the City Traction & Power Co., which was recently chartered, has not taken steps yet to build its line. J. B. Steele is interested.

BIRMINGHAM, ALA.—The Birmingham Ry., Light & Power Co. proably will extend its Tuxedo branch, it is reported, from Owenton to Ensley. J. A. Emery is Gen. Mgr., at Birmingham.

PADUCAH, KY.—We are advised by O. C. Lasher, Editor of the "Banner," Smithland, Ky., that company has not yet been organized to build the projected electric railway from Paducah, Ky., to Ledbetter, Smithland, Hampton, Salem, Levias and Marion, a distance of 40 miles, as capital is desired. This railway would shorten the route about 30 miles between Paducah and Evansville, Ind., and would traverse some of the best farming lands in the state. Previously noted.

MARIETTA, O.—The Marietta, Belore, Parkersburg & Galipolis Traction Co. has been incorporated, with a preliminary capital of $1,500, to build an electric line from Marietta to Galipolis, paralleling the Ohio River. Albert E. Boone, of Zanesville, O., is at the head of the company.

GALION, O.—County Commissioners have granted right-of-way over county roads to the Galion Southern Ry., it is reported. The company will build an electric railroad from Galion to Mt. Vernon. W. L. Ball, of Galion, is interested.

WOOSTER, O.—Nearly all bonds necessary to build the Wooster & Mansfield Electric Ry. Co.'s line have been sold. Wooster will subscribe about $10,000. C. L. Jackson, of Philadelphia, Pa., who is financing the project, is said to have announced that the road will be built during the summer of 1906.

CLEVELAND, O.—We are informed that contracts will be let some time next spring for construction of the Cleveland, Ashland & Mansfield Traction line. The Roberts & Abbott Co., 1123 Schofield Bldg., Cleveland, is the Engr.

UPPER SANDUSKY, O.—Frank M. Ohl, one of the promoters of the proposed Fostoria, Upper Sandusky & Marion Railway, has applied to the village council of this place for a franchise. It is reported that nearly all the right-of-way has been secured and that work will start in the spring.

TOLEDO, O.—We are advised by T. Rhys Smith, Ch. Engr. of the Cincinnati, Toledo & Detroit Short Line Ry. Co., Meredith Bldg., Toledo, that detail specifications are now being prepared and that bids will be received by the GARDNER COMPANY, the general contractor for material, supplies and equipment for building this railway. "There will be two power houses. The alternating current system will be used and probably the steam turbine for prime movers. The track and bridges will be built for carrying the heaviest freight cars (at present 100,000 capacity coal cars). Electric locomotives will be used for hauling the freight, and it is proposed to use the most up-to-date passenger equipments. The motive power will be electricity; the length of the road, 220 miles. The prominent towns through which it will run after leaving Toledo are Napoleon, Defiance, Pauilding, Van Wert, Celina, Ansonia, Greenville, Eaton, Hamilton and Cincinnati. The major portion of the right-of-way has been secured." This project was fully noted in Engineering News last week.

CLEVELAND, O.—We are advised that 4-mile extension for the Cleveland, Painesville & Ashtabula R. R. is surveyed and that right-of-way is obtained. Contract for material will be let in February or March, 1906. The company will do its own construction. W. J. Hayes, Chamber of Commerce Bldg., Cleveland, is Pres. R. R. Mungor, Geneva, O., is Ch. Engr. The extension will extend from Geneva to North Geneva and to Geneva-on-the-Lake. J. R. Curtiss is Supt., at Geneva.

YOUNGSTOWN, O.—We are informed that the Youngstown & Ohio River Ry. & Light Co. is now working on survey and route for its proposed line. Capital is in sight and it is expected that work will begin early next spring. The line will be about 60 miles long, extending from Youngstown to Lisbon, Salem and East Liverpool. T. W. Hill, 225 Superior St., Cleveland, is Pres., and W. B. Christy, of Akron, O., is vice-Pres.

MARION, IND.—We are advised that the Marion, Matthews & Muncie Traction Co. will soon ask for bids for construction of 18 miles of railway.

We are informed by John Ratliff, of Marion, that surveys have been made for the proposed 42-mile electric railway to Independence, Elwood and Noblesville, and that right-of-way is being secured. Capital has been offered for its construction if the project proves feasible. A company probably will be organized soon and officers be elected. Mr. Ratliff has made the preliminary surveys. Noted on Oct. 26.

CRAWFORDSVILLE, IND.—C. N. Vancleave and Eli Baker, of Crawfordsville, are interested in construction of the Indianapolis, Crawfordsville & Western Ry., from Indianapolis to Danville, Ill. Capital is said to be secured.

LAFAYETTE, IND.—Construction will begin as soon as possible on the railway which will be built between Lafayette and Kankakee, Ill., by the Chicago, Kankakee & Lafayette Southeastern Traction Co. This line will form a link in the [illegible]apolis-Chicago system. As noted on N[illegible] this company has been incorporated [illegible] to build an electric rail[illegible] capital Ind., to Kankakee, Ill., [illegible] Lafayette, Chicago; W. N. Hardin[illegible] S. Reed, of and D. W. Sims. [illegible] M. Huggs

INDIANAPOLIS, IND.—[illegible] informed that plans and specifica[illegible] being prepared for the constructio[illegible] Louisville & Indianapolis Traction [illegible] way. Financial arrangements have [illegible] fected, and it is expected that con[illegible] will begin at an early date. Chas. [illegible] of Jeffersonville, Ind., is Chief E[illegible] S. Smith is Asst. Engr.

GRAND RAPIDS, MI[illegible] reported that the INTERNATIONA[illegible] CONSTRUCTION CO., of Toronto and N[illegible] has been awarded the contract fo[illegible] construction of the Grand Rapids & I[illegible] Rapids, Belding & Greenville, Io[illegible] Owosso and Owosso & Pontiac electr[illegible] The first two roads will be [illegible] midsummer and all within [illegible] Hopkins, of Detroit, is in[illegible] E. M.

PRINCETON, ILL.—We a[illegible] that the Illinois Valley Ry. Co. [illegible] making location surveys for its pro[illegible] extension to Princeton. The route is [illegible] been determined yet. The new li[illegible] be 17 miles long. Contra[illegible] probably will be let during the winter. An ext[illegible] will also be built from Seneca to Mo[illegible] 11 miles in 1906. H. E. Chubbuck [illegible] Mgr., at La Salle, Ill., and W. H. Cat[illegible] Ch. Engr., at Ottawa, Ill. The company now operates 40 miles. Noted on Nov. 2.

MILWAUKEE, WIS.—We a[illegible] advised that the Milwaukee Engineering Company, of Milwaukee, has charge of the engineering work on the Wisconsin Rapids Transit Ry.'s line which will run from Milwaukee to Fond du Lac and Port Washington. It will serve a population of 384,000 or a little over 5,000 to the mile. There will be ready $150,000 of bonds for sale on Jan. 1, 1906. The project is not quite far enough advanced to announce details of the proposed line between Janesville and Waupaca, Wis.

OSKALOOSA, IA.—We are advised that the Oskaloosa & Buxton Elec. Ry. Co. will build a railroad, 18 miles long, from Oskaloosa via Beacon to Buxton. Surveys are completed and right-of-way is being secured. Capital is partly secured by stock subscription and taxes. Lichter & Jens, of St. Louis, Mo., are Engrs.; Harry E. O'Neill, of Oskaloosa, is Pres.

KANSAS CITY, KAN.—We are informed that the Kansas City, Stranger Valley & Western Ry. Co., which was recently chartered in Kansas with $100,000 capital, has completed surveys and has obtained nearly all right-of-way for its line. It will extend from Kansas City, Kan., to Topeka, through Wyandotte, Leavenworth and Jefferson Counties. James T. Manning, of Kansas City, Mo., is Pres.

JOPLIN, MO.—A franchise to operate in Joplin has been granted by the city council to W. H. Mitchell, of New York city, and Wm. S. Brawner, of St. Louis, for a railroad 100 miles long, which will be a loop line from Joplin southeast and back to city. It will be operated by gasoline-motor cars.

LEWISTON, IDAHO.—We are advised that bids will be received before long for construction of Lewiston & Southeastern Elec. Ry. from Lewiston to Clarkston, Westlake, Nezperce and Grangeville, 110 miles. Surveys are made and right-of-way and capital are secured. Col. Judson Spofford, Lewiston, is Pres.

LIGHT AND POWER PLANTS.

The names of parties awarded contracts are printed in capital letters.

GROTON, CONN.—Site will be secured for proposed municipal electric plant. It is planned to have the plant in operation by April 15, 1906.

NEW YORK, N. Y.—T. Cary Hutchinson, Chn. of Commission appointed by Mayor George B. McClellan to prepare plan for municipally owned and operated city lighting plants has submitted report on Brooklyn and Queens Boroughs to Board of Estimate. For Brooklyn and Queens the commission favors a site at Nott Ave., Hunter's Point, where it proposes to establish a plant of the same size and capacity as already planned for Manhattan and the Bronx. The report provides for alternate plans. The first would provide for all the present electric lights in the parks, streets, and public buildings of the two boroughs, leaving the present gas lamps in those places undisturbed. The alternate proposition would, in addition, replace all the present gas lamps in the boroughs with electric lamps. Under the first plan the cost to the city would be $6,138,000 for the establishment of the plant, while the cost under the second plan would reach $9,485,000. This is comparatively a much greater cost than the establishment of the Manhattan and Bronx plant, which, under the first proposition, will cost approximately $4,000,000, and under the second proposition approximately $7,000,000. It is also figured that it will cost $100,000 a year more to run the Brooklyn and Queens plant than it now costs the city to light the two boroughs by contract with the present lighting companies. This is because the plans of the Hutchinson commission provide for placing underground all wires in Brooklyn and Queens. The report for Borough of Manhattan regarding municipal lighting plant, including land, buildings and all equipment for a central station, of a capacity of 15,000 kilowatts and a distributing system designed to supply 15,000 arc lights and 30,000 16-c. p. incandescent lights, placed the total cost at $7,567,000. The total annual operating and fixed charges, including interest at 3.5 per cent. depreciation and all operating expenses, will be, a year, $1,269,0[illegible]

CAMDEN, N. J.—LYNCH BRO[illegible] of Philadelphia, Pa., have contract for power house to be erected in Camden for the Public Service Corporation.

BURLINGTON, N. J.—The United States Cast Pipe Co. is having plans prepared for the erection of an electric power house at its plant.

ELIZABETH, N. J.—The next legislature may be petitioned by this city for authority to enable the city to build and operate a municipal electric lighting plant. Contract with the United Service Corporation will expire on Sept. 1, 1905.

STRATTON, PA.—The plant of the Steelton Heat & Power Co. was destroyed by fire recently. Loss is estimated at $60,000. J. E. Keeney is Gen. Mgr. and Supt.

WASHINGTON, D. C.—It is reported that the following bids were received at the office of the Superintendent of the Capitol building and Grounds on Nov. 20 on the amended specifications for installing a heating, lighting and power plant: Westinghouse Electric & Mfg. Co., Pittsburg, Pa., proposition 2, $1,0[illegible]69; deduction, $596,002, leaving the bid $[illegible]8,367; proposition 3, $901,736; deduction, $171,929, leaving the bid $429,807. J. G. White & Co., 43 Exchange Pl., New York City, proposition 1, $1,189,250; deduction, $[illegible], leaving bid $594,216; proposition 2, $1,059,269; deduction, $549,377, leaving bid $509,962. Carl Leonard de Muralt, 45 Pine St., New York City, proposition 1, reciprocating engines, $1,164,700; deduction, $395,500, leaving bid $769,200; proposition 2, turbines, $1,119,800; deduction, $372,500, leaving bid $747,300. Lynch & Woodward, 26 Beach St., Boston, Mass., proposition 1, reciprocating engines, $862,726; deduction, $486,957, leaving bid $375,769. Hanley-Casey Co., 37 Ohio St., Chicago, Ill., proposition 1, $1,047,278; deduction, $548,496, Babcock & Wilcox boilers, leaving bid $498,782; proposition 2, $1,047,278; deduction, $555,496, leaving bid $490,782; proposition 3, $1,047,278; deduction, $583,496, Atlas boilers, leaving bid $463,782. McIntosh & Seymour Co., 26 Cortlandt St., New York City, proposition 1, $903,730, horizontal compound engines; deduction, $481,054, leaving bid $422,676; proposition 2, $918,500, vertical engines; deduction, $488,052, leaving bid $430,448. The Schofield Co., Pennsylvania Bldg., Philadelphia, Pa., proposition 1, $1,015,450; deduction, $453,647, leaving bid $561,803; proposition 2, $974,100; deduction, $423,844, leaving bid $550,256.

SOUTH PITTSBURG, TENN.—Town plans to purchase light plant and water-works.

RICHMOND, VA.—Howard Bruce, in report to council on the city gas works, recommends an expenditure of $700,000 for improvements, to include a 2,000,000 cu. ft. holder and pumping line complete; the installation of by-pass connections to present 400,000 cu. ft. holder; rebuilding the holder, laying 15 miles of 6 and 8-in. mains, and replacement of the present 3-in. pipes. Noted on Oct. 5.

NEW ORLEANS, LA.—The New York-New Orleans Electric Co. has been incorporated with $1,000,000 capital stock to build and maintain electric plants, etc. Maurice J. Hart is Pres.; Hewes T. Gurley, vice-Pres., and Robert O. Randle, Secy. and Treas.

MACON, GA.—The Macon Ry. & Light Co., it is said, will improve its plant and power houses at cost of $60,000. J. T. Nyhan is Gen. Mgr.

DELAND, FLA.—We are advised that the Citizens' Mfg. Co., of Deland, has been incorporated to manufacture artificial gas and ice and will operate under a franchise granted to J. H. Kruse. Capital stock, $50,000. Operations will begin at once. J. H. Kruse is Supt.

ALBERTVILLE, ALA.—We are informed by E. O. McCord that no plans have been made for proposed power plant on Short Creek Falls, four miles below Albertville. A small power plant is being installed by Mr. McCord and main plant will not be erected until capital is secured. The town of Albertville eventually will be lighted by this plant. Previously noted.

TERRE HAUTE, IND.—Alvin M. Higgins is Chn. of a committee appointed by the Mayor to make arrangements for construction of a municipal electric light plant.

HORTONVILLE, IND.—The Hortonville Gas Co. has been organized here with $10,000 capital.

TERRE HAUTE, IND.—City council has adopted an ordinance providing for a new municipal electric light plant. The Board of Public Works has been instructed to have plans and specifications prepared for it.

GRAND RAPIDS, MICH.—Water power development on the Manistee River, Mich., is being undertaken by the Michigan Hydraulic Power Co., recently organized here. H. von Schon, M. Am. Soc. C. E., of Detroit, Mich., is Consult. Engr.

ELK RAPIDS, MICH.—The Elk Rapids Light & Power Co. has incorporated with a capital stock of $25,000.

L'ANSE, MICH.—The SUPERIOR CONSTRUCTION CO., of Houghton, Mich., has been awarded contract for the L'Anse municipal electric lighting and power plant.

LANSING, MICH.—The Commonwealth Power Co., of Jackson, is having plans prepared for a brick power house to be erected in Lansing. The company will furnish power for the Lansing-Jackson electric line, the Lansing-St. Johns and the Lansing-Haslett Park lines.

LINCOLN, ILL.—John A. Simpson, Chn. of Committee, will receive bids for municipal lighting.

CHICAGO, ILL.—We are advised that information is being secured regarding the approximate cost per horse-power of large steam electrical power plant installations for electric lighting and electric railway purposes. The city is looking up the question of utilizing for municipal purposes the power now being developed at Lockport, Ill., on the Drainage Canal. John Ericson is Cy. Engr.

OZARK, ARK.—R. M. Adams, of Ozark, desires estimates of cost of installing an electric light plant and water-works.

ST. PAUL, MINN.—The city council has directed the Board of Public Works to advertise for street lighting contract for 1906. The contract last year was awarded for $50,000. R. L. Gorman is Clk.

PORTLAND, ORE.—THE PLATT IRON WORKS, of Dayton, O., has been awarded the contract to furnish the water wheels in the new plant of the Oregon Water Power & Railway Co., near Portland.

LOS ANGELES, CAL.—The bids received Nov. 2 by U. S. Reclamation Service for hydraulic apparatus for Roosevelt power plant, Salt River Project, Arizona, will be given under Contract Prices in our next week's issue.

RENO, NEV.—W. D. Arnett, a Mining Engr., of Reno, will begin erection next spring of a $100,000 power and lighting plant.

WINNIPEG, MAN.—Specifications are on file at office of Engineering News, New York, for gas producer plant, for which bids are asked until 3.30 p. m., Dec. 18. Advertised in Engineering News on Nov. 16. H. N. Ruttan is Cy. Engr.

BRIDGES.

The names of parties awarded contracts are printed in capital letters.

CAMBRIDGE, MASS.—The Board of Aldermen has adopted an order authorizing the Mayor to petition the Harbor and Land Commissioners for a license to build a Scherzer rolling lift, bascule bridge across Lechmere Canal at an approximate cost of $45,000.

NEWTOWN, CONN.—Fire destroyed the Highland Division bridge of the New York, New Haven & Hartford Railroad over Housatonic River at this point and it will be a month before another structure can be built. The bridge was 200 ft. long. Edw. Gagel is Ch. Engr., New Haven.

CHATHAM, N. Y.—The Boston & Albany Railroad bridge over the Locust St. roadway is to be strengthened and in the spring a new bridge will take the place of the present structure. W. Shepard is Ch. Engr., Boston, Mass.

NEW YORK, N. Y.—President Rhodes, of the City and County Contract Co., which is building the New York, Westchester & Boston Railway, announces that he is prepared to let contracts for 16 steel bridges. All of these bridges are located between West Farms and the northern boundary of the city. This is the portion of the line within the limits of the Borough of the Bronx. Plans, specifications and proposal forms can be obtained from William A. Pratt, Ch. Engr., 30 Broad St., or may be seen at office of Engineering News, 220 Broadway. The bids will be received by the City and County Contract Co., which also has offices at 30 Broad St., on Dec. 9. The successful bidder will be required to furnish a bond for $25,000 for the completion of the work on or before July 1, 1906.

NEW YORK, N. Y.—Bids are asked by Louis F. Haffen, Pres. Boro. Bronx, until 11 a. m., Dec. 7 for widening of bridge over the New York & Harlem Railroad at 177th St.

CAMDEN, N. J.—The Board of Freeholders rejected bids for bascule trolley and highway bridge over Cooper's Creek. The work will be readvertised. J. J. Albertson is County Engr.

PERTH AMBOY, N. J.—Bids are asked by Board of Aldermen until 8.30 p. m., Dec. 4 for construction of trestle approach to bridge to be placed over the Raritan North Shore Railroad, and a 25-ft. trestle to be erected south of railroad to connect the proposed bridge of the Central Railroad Co. with the proposed 300-ft. extension of bridge to be built by Board of Freeholders. Wm. Fullerton, St. Comr.

NORRISTOWN, PA.—County Commissioners have decided to build a single arch stone bridge in Upper Hanover.

WILMINGTON, DEL.—The Water Department, Theo. A. Leisen, Ch. Engr., is preparing plans for a reinforced concrete bridge, 335 ft. long and 24 ft. wide, to be constructed across Brandywine Creek at Van Buren St., for the purpose of carrying a 48-in. distributing main.

WILSON, N. C.—Bids are asked by County Commissioners until noon, Dec. 18, for the construction of superstructure of steel bridge over Moccasin River. Bridge consists of two spans of 80 ft. each, with 16-ft. roadway. John W. Hays, Engr., 3 South Adams St., Petersburg, Va. (Advertised, Engineering News.)

REIDVILLE, S. C.—Bids are asked by County Commissioners until Dec. 5 for the construction of bridge at Ben's Creek bridge near Cashville. F. C. West, County Clk.

CAMBRIDGE, O.—Bids are asked by County Commissioners until 1 p. m., Dec. 19, for the erection of one iron and steel bridge. The bridge is located about 1½ miles north of Byesville, across Chapman Creek. Dan. R. Wallace, County Audr.

OWENSBORO, KY.—The Owensboro Business Men's Association has started a movement to erect a bridge across the Ohio at Owensboro. It is proposed to organize a company with a capital stock of $600,000.

RUSHVILLE, IND.—The Commissioners of Rush County will receive bids until Dec. 4 for the construction of a bridge over Blue River, near Arlington.

HUNTINGTON, IND.—Bids will be received by County Commissioners until Dec. 4 for constructing a two-span bridge across Wabash River at White Church, and also a two-span bridge across Wabash River at Mt. Etna. Bids on both bridges to be for concrete or iron structure.

PORT HURON, MICH.—This city will soon advertise for specifications for new bridge at Military St. and for bids for repairing old one. W. W. Phillips is Cy. Engr.

WAUKEGAN, ILL.—Plans for new concrete bridge over Genesee St. ravine are completed and have been submitted to city officials by Engineer Geraghty of the C. & M. Electric R. R. Co.

JERSEYVILLE, ILL.—The Piasa bridge was swept away by cloud burst several weeks ago. It will be rebuilt at once by Jersey County.

SILVERLAKE, WIS.—County Board of Supervisors appropriated $2,500 to pay part of the cost of a new bridge over Fox River, at Silverlake. The bridge is to cost $4,500, and the remainder of the fund will be raised by town of Salem. Work will be started in the early spring.

MILWAUKEE, WIS.—The Finance Committee has reported favorably to the council on ordinance to issue $150,000 of bonds to build bridges at First Ave. and Sixth St. as a part of the new viaduct.

LA CROSSE, WIS.—Supervisor McHugh offered a resolution that $3,200 be appropriated for construction of a steel bridge over slough on the McGillivray Road to replace wooden structure which is at present in a dangerous condition. Resolution was adopted. The new bridge is to be over 100 ft. long.

RACINE, WIS.—If the Scherzer Rolling Lift Bridge Co. can erect a bascule bridge across the river at Main St. on plans submitted and somewhat changed by City Engineer Henry Connolly, for $72,000, then the contract will be awarded to that company.

DECORAH, IA.—N. M. STARK & CO., of Des Moines, have been awarded a contract by Board of Supervisors for the erection of new concrete bridge of two spans, each 81 ft., across Upper Iowa River at Decorah. Work will be commenced in the spring.

GIRARD, KAN.—Bids are asked by County Commissioners until 12 m., Dec. 7, for complete superstructure of eight steel bridges and erection of same. Fred. A. Gerken, County Clk.

MINNEAPOLIS, MINN.—We are informed that the following bids were received Nov. 24 for steel work necessary for the widening of Washington Ave. bridge over the Mississippi River: Strobel Steel Const. Co., Chicago, Ill., $83,345; St. Paul (Minn.) Foundry, $55,470; King Bridge Co., Cleveland, O., $60,000; Milwaukee (Wis.) Bridge Co., $52,000; J. C. Morrison, Dayton, O., $58,000; J. L. Brickles & Co., Sparta, Wis., $55,000; Canton (O.) Bridge Co., $53,780; Illinois Bridge Co., Chicago, $52,300; Hennepin Bridge Co., Minneapolis, $51,000; John Cilligan Co., Falls City, Neb., $50,989; Darst & Hayes, Chicago, $50,800; Clinton (Ia.) Bridge & Iron Works, $50,100; Modern Steel Structural Co., Waukesha, $50,000; Joliet (Ill.) Bridge & Iron Co., $49,800; Minneapolis Steel & Machinery Co., $48,300; Bayne & Hewett, Minneapolis, $47,987. Andrew Rinker, Cy. Engr.

DULUTH, MINN.—Sealed bids will be received by O. Holden, County Audr., until 9.30 a. m., Jan. 2, for construction of steel bridge across St. Louis River, near Zim.

LEXINGTON, NEB.—Contract was not let for construction of wooden bridges for one year, beginning Jan. 1. County Commissioners will readvertise. R. S. Thornton, Co. Clk.

FARGO, N. DAK.—Bids are asked by County Commissioners until Dec. 7 for construction of three 40-ft. bridges, two 20-ft. bridges, and one 16-ft. bridge. Arthur G. Lewis, County Audr.

CAMERON, TEX.—It is stated that Milam County is considering rebuilding the Faubion bridge across Little River. Address County Clk.

OKLAHOMA CITY, OKLA.—Bids are asked by County Commissioners until Dec. 18 for construction of one 100-ft. bridge, with 24-ft. roadway. E. S. Blackburn, County Clk.

SAN FRANCISCO, CAL.—The SAN FRANCISCO BRIDGE CO. has signed a contract with the Yosemite Valley R. R. Co. for the construction of three steel bridges across Merced River; total cost, $86,100.

RED BLUFF, CAL.—The Board of Supervisors has voted to build an addition to the county bridge over Thomes Creek, at an expense of $4,000.

MADERA, CAL.—The contract for bridge over Chowchilla Creek and Berenda Slough was awarded by Board of Supervisors to C. J. HALL for $2,915.

SANTA ROSA, CAL.—We are advised that bids will be opened Dec. 5 by the City Clerk for building concrete or stone arch bridge at E St., over Santa Rosa Creek. Bridge is to consist of two spans of 60 ft. each, is to be 20 ft. wide, and is to have a foundation of concrete on piles. Est. cost is $8,000 to $10,000. L. E. Ricksecker is Cy. Engr.

BUILDINGS.

The names of parties awarded contracts are printed in capital letters.

BURLINGTON, VT.—Bids are asked by Capt. T. B. Lamoreux, Q. M., until 2 p. m., Dec. 2, for furnishing and installing electric fixtures in addition to hospital at Ft. Ethan Allen.

GREENWICH, CONN.—John E. Nitchie, 150 Nassau St., New York City, has awarded the general contract for the stable to be built for H. M. Flagler, to THE REPUBLIC GENERAL CONTRACT CO., 1181 Broadway, New York City.

BROOKLYN, N. Y.—W. E. Parfitt, Arch., 86 Court St., is taking figures on a $175,000 addition to 13th Regiment Armory. Brick, fireproof, 2 stories, 100 × 108 × 200 ft.

BROOKLYN, N. Y.—John E. Nitchie, 150 Nassau St., New York, is preparing plans for extensive alterations to the Baptist Church on Classon Ave., south of Lefferts Place.

D. J. RYAN, 723 Third Ave., Brooklyn, is the general contractor for the Macon branch of the Brooklyn Public Library, at Lewis Ave. and Macon St. Approximate cost is $65,000. Walker & Morris, 24 East 23d St., are architects.

BROOKLYN, N. Y.—Bids were received by the Armory Board on Nov. 28, for furnishing all labor and materials for making and completing the repairs and alterations to the several armories of the organization of the N. G. N. Y., in the Boroughs of Manhattan & Brooklyn. No. 1, extension to 13th Regiment Armory, Borough of Brooklyn: Geo. Hildebrand, 38 Park Row, $119,800; Buckley Realty and Construction Co., Times Bldg., $135,000; Clarke & Stowe, 221 Greenpoint Ave., Brooklyn, $131,500; T. G. Carlin, 215 Montague St., Brooklyn, $139,385; Thos. McKeown, 521 West 110th St., New York, $149,889; D. J. Ryan, 723 Third Ave., Brooklyn, $149,000; Jos. McArthur, $154,900. No. 2; Improvements to Second Battalion, N. M., N. Y., Borough of Brooklyn. O. Charles Meyer, 359 Ninth Ave., New York, $11,950; Charles Morton & Co., 500 Fifth Ave., New York, $20,250; J. McFarran, 106 East 23d St., New York, $12,769. No. 4: L. Wechsler, 1133 Broadway, New York, $2,275; Fleischman Construction Co., 170 Broadway, $3,978; Alex. Brown, 156 Fifth Ave., $3,300.

NEW YORK, N. Y.—Bids are asked by Louis F. Haffen, Boro. Pres., until 11 a. m., Dec. 12, for construction of the Bronx Borough court-house at public square, bounded by Brook Ave., Third Ave. and 161st St.

NEW YORK, N. Y.—Bids are asked by C. B. J. Snyder, Supt. School Bldgs., until Dec. 4, for general construction, etc., of new Public School No. 8, on Hicks St., between Poplar and Middagh Sts., Borough of Brooklyn.

NEW YORK, N. Y.—Lynch & Orchard, 1 West 34th St., has awarded the contract for the school at 131st St. and Convent Ave., to M. REID & CO., 114 West 39th St. General contract includes heating, lighting and plumbing.

NEW YORK, N. Y.—Bids are in for the general contract on the Delta Phi clubhouse to be located on West 116th St., west of Broadway. Thomas Nash, 1170 Broadway, is Arch. Brick, 25 × 100 ft.

NEW YORK, N. Y.—The Church Construction Co., at 949 Broadway, was incorrectly noted on Nov. 9 as being at 1 Madison Ave.

NEW YORK, N. Y.—STERLING BRONZE CO., 107 West 25th St., has been awarded the contract for lighting fixtures on the Mercantile National Bank, 195 Broadway. Howells & Stokes, 100 William St., are the Archs.

GUIDONE & GOLARDI, 1 Madison Ave., have been awarded the general contract for the New deer house to be erected in Bronx Park, by the N. Y. Zoological Society. Construction is brick, stone and steel, 41 ft. × 154 ft. Heins & La Farge, 30 East 21st St., are Archs. J. Robert Moore, 156 Fifth Ave., is Consulting Engr.

NEW YORK, N. Y.—M. Brandt, 24 West St., is taking figures on a $100,000 stable to be erected at 425-33 11th Ave., for the Anheuser-Busch Brewing Co., from plans by Weidman, Walsh & Boissier, St. Louis, Mo.

DALT & DALT ELECTRIC CO., 5 East 42d St., has been awarded contract for electric work on $400,000 apartment house to be erected at 96th St. and Madison Ave., for the Calles Realty Co., 134 West 25th St., care M. Dewey. Clinton & Russell, Archs., 32 Nassau St. Brick, stone and terra-cotta, 7 stories, 90 × 145 ft. Owner builds.

COMMERCIAL CONSTRUCTION CO., 1 Madison Ave., has been awarded contract for electric wiring and switchboards for public school No. 10, at St. Nicholas Ave. and 117th St. C. B. J. Snyder, Arch., 50th St. and Park Ave. Brick and stone, 5 stories, 60 × 120 and 60 × 170 ft. P. J. RYAN, 314 West 44th St., is the general contractor.

McKim, Mead & White, Archs., 160 Fifth Ave., has two sets of plans in progress, one for new building and the other for alteration of old custom-house at William and Wall Sts. Building is owned by National City Bank, J. Stillman, Pres., 52 Wall St. If new building is erected it will be brick and stone, 18 stories, 180 × 220 ft.

Maynicke & Frank, Archs., 298 Fifth Ave., have plans in progress for loft building to be erected at 32d St. and Fifth Ave., for Mathew Rock. H. Corn, 320 Fifth Ave., will have charge. Brick and stone, 11 stories, 30 × 150 ft.

St. Thomas Protestant Episcopal Church, care E. M. Stires, 1 West 53d St., contemplates erecting a church on a plot 60 × 175 ft., at Fifth Ave. and 53d St. Architect will be selected by competition.

J. H. Duncan, Arch., 208 Fifth Ave., is taking figures on electric wiring and switchboards for addition to Lord & Taylor's store at Fifth Ave. and 19th St., to be eight stories, 50 × 125 ft. R. H. CASEY, 109 West 30th St., is general contractor. G. T. SINCLAIR, 3 East 19th St., has contract for carpenter work.

R. C. Gildersleeve, Arch., 150 Fifth Ave., is taking figures on $50,000 of alterations for Mrs. H. Fiske, 671 Fifth Ave., to residence at 12 East 53d St. Brick and stone, 5 stories, 50 × 70 ft. Heating system, electric elevator, wiring and plumbing are included in the general contract.

Snelling & Potter, Archs., 1170 Broadway, have plans in progress for an apartment house to be erected at 33-7 East 30th St. Reinforced concrete, stone and terra-cotta, fireproof, 9 stories, 65 × 100 ft., and contain 150 rooms.

KELSEY HEATING CO., 156 Fifth Ave., have been awarded contract for new residence to be erected at 72 East 39th St., for A. G. Fox, 45 Wall St., from plans by Hoppin, Koem & Huntington, 244 Fifth Ave.

Chas. Wolz, Arch., 160 Fifth Ave., is taking bids on electric wiring for new $1,000,000 addition to American Museum of Natural History at Central Park West and 77th St. C. O. Mailloux, 76 William St., is Elec. Engr.

Bernstein & Bernstein, Archs., 24 East 23d St., have plans in progress for a synagogue to cost $250,000, to be erected at 132-42 East 111th St., for Congregation Talmud Thora, care David Cohen, 171 Broadway. Stone, 4 stories, 95 × 25 ft., fireproof and seating 2,500 people.

Copeland & Dole, Archs., 135 William St., have plans in progress for new hotel, to be called Mills Hotel No. 3, to be erected at

36th St. and Seventh Ave., for D. O. Mills, 15 Broad St. Brick, stone and terra-cotta, fireproof, 15 stories, 180 × 200 ft.

W. B. Tuthill, Arch., 287 Fourth Ave., is taking figures on separate contracts for alteration to the Stanger Gout and Rheumatism Institute Building, at 149-51 East 67th St. Brick and stone, fireproof, 6 stories, 50 × 100 ft.

G. F. Pelham, Arch., 503 Fifth Ave., has plans in progress for an apartment house to be erected at St. Nicholas Ave. and 153d St., for M. Miller, 308 West 56th St. Brick, stone and terra-cotta, 6 stories, 50 × 100 ft. Owner builds and will be ready for sub-contracts about Dec. 15.

J. R. Pope, Arch., 1135 Broadway, has plans completed for residence to be erected at 16 East 57th St., for Mrs. Wm. Storrs, 16 East 51st St. Brick and stone, fireproof, 7 stories, 20 × 100 ft.

M. REID & CO., 114 West 39th St., were awarded general contract for erecting a parochial school at 131st St. and Convent Ave., for Church of the Annunciation. E. Lynch, 1 West 34th St., is Arch. Brick and terra-cotta, fireproof, 3 stories, 50 × 75 ft.

F. H. Kimball, Arch., 71 Broadway, has plans in progress for bank and office building to be erected on South William St., for J. & W. Seligman, 21 Broad St. Stone and brick, 12 stories, fireproof, 79 × 94 × 50 ft.

Du Bois & Jallade, Archs., 178 Fifth Ave., are taking figures on a garage to be located at 225-31 West 49th St., for parties unknown. Brick, 4 stories, 75 × 100 ft.

Melville & Bagge, Archs., 217 West 125th St., has completed plans for an apartment house to be erected at 122d St. and Broadway, for A. C. & H. M. Hall Realty Co., 362 West 125th St. Brick, stone and terra-cotta, 6 stories, 90 × 90 ft. Cost, $150,000.

Plans have been filed by Samuel Sass, Arch., 23 Park Row, for department store to be erected at 13 West 34th St., for Robt. Smith & Co., 46 West 14th St. Brick and stone, 6 stories, 25 × 115 ft. Richman Realty Construction Co., 56 Liberty St., has the general contract.

NEW YORK, N. Y.—Snelling & Potter, 1170 Broadway, are receiving bids on the construction of a 9-story fireproof apartment house, 75 × 110, to be erected on 110th St., 100 ft. east Riverside Drive. Construction to be reinforced concrete. Power will be taken from street. There will be an especially large amount of plumbing.

Rossiter & Wright, 95 Liberty St., are preparing sketches for a church and home to be located on West 53d St. through to West 54th St., between 8th and 9th Aves. Size is 5 stories, 100 × 168; brick and stone.

Pollard & Steinman, 234 Fifth Ave., have prepared plans for a 14-story brick and stone building, 50 × 88, to be located on the north side of 67th St., 150 ft. east Columbus Ave., to be known as Colonial Studios. Owner is R. W. Vonough, 133 West 67th St. Approximate cost is $200,000.

Plans are out for general contract figures for St. Chiaras Church, to be erected at 436-438 West 36th St., New York City. Rev. W. Maroville, pastor. Construction to be brick, stone and terra cotta, fireproof, 50 × 90. Approximate cost, $60,000. Architect is Nicholas Serracino, 1133 Broadway.

R. L. Walsh & Co., 100 William St., figuring. Bids close Dec. 4th.

Jas. R. Stewart & Co., 135 Broadway, general contractors for the new Fahy's Building at 52 Maiden Lane, has awarded the contract for structural steel to LEVERING & GARRIGUES CO., 552 West 23d St. Clinton & Russell, 32 Nassau St., Archs. Owing to some necessary revision in the plans, no further sub-contract figures will be received soon.

WELLS BROS., 160 Fifth Ave., New York, are general contractors for the New York Club, at 18 to 22 West 40th St. Building to be 9-story, brick; costing, $300,000. H. J. Hardenbergh, 1 West 34th St., is Arch.

Pollard & Steinman, 234 Fifth Ave., have received bids for general contract on the Colonial Studios on 67th St., 150 ft. east of Columbus Ave. Size of building is 50 × 88 ft., 14 stories; brick. Approximate cost is $200,000. Owned by R. W. Vonough, 133 West 67th St.

PORT RICHMOND, N. Y.—Geo. Hilderbrand, 38 Park Row, general contractor for public school No. 21, at Port Richmond, has awarded the plumbing to WM. C. ORMOND, 430 Kosciusko St., Brooklyn.

LAKE PLACID, N. Y.—The Whiteface Inn will be enlarged by an addition containing 90 sleeping rooms and 32 baths. Harrington Mills, Washington, D. C., is the owner.

OVERBROOK, N. J.—RICHARD E HENNINGHAM, 4 Court St., Brooklyn, N. Y., has been awarded general contract for building new insane asylum at Overbrook for Board of Freeholders of Essex County, care H. Gallagher, Newark. HURD & SUTTON, 763 Broad St., Newark, are Archs. There will be seven buildings, all of brick or stone.

NEWARK, N. J.—C. G. Jones, Arch., 280 Broadway, New York City, is taking figures on a church to be erected here for the Mt. Pleasant Baptist Church. Brick, 1 story, 50 × 100 ft.

CONVENT STATION, N. J.—JOHN CORBETT, of Madison, has been awarded mason contract and J. DALGALISH, of Morristown, the carpenter contract for dormitory to be erected here for St. Elizabeth College. E. McMurray, 22 Clinton St., Newark, is Arch. Brick and stone, 3½ stories, 50 × 160 ft.

SUMMIT, N. J.—S. L. WRIGHT, 14 Bank St., Summit, has been awarded general contract for erecting residence here for B. Underwood, 3 West 19th St., New York City. W. A. Balch, 5 West 31st St., New York City, is Arch.

NEWARK, N. J.—Ed. A. Wurth, Arch., 75 Market St., Newark, is taking figures on store building to be erected at 157-9 Springfield Ave., Newark, for Christian Schmidt. Brick, 6 stories, 50 × 160 ft.

G. H. Chamberlain, Arch., 1183 Broadway, New York City, is taking figures on a milk depot and stable to be erected at Fourth St. and Mt. Pleasant Ave., Newark, for Borden Condensed Milk Co., 108 Hudson St., New York City. Brick and stone, fireproof, 3 stories, 75 × 100 ft.

HASBROUCK HEIGHTS, N. J.—Walker & Morris, Archs., 24 East 23d St., New York City, are taking figures on revised plans for high school to be erected here. Brick, 3 stories, 75 × 200 ft.

FORT LEE, N. J.—The Board of Education, care Carl Richter, are taking figures on new school house to be erected at Whiteman St., from plans by Gerber & Zimmerman, 287 Fourth Ave., New York City.

ELBERON, N. J.—R. C. Gildersleeve, Arch., 150 Fifth Ave., New York City, is taking figures on revised plans for residence to be erected here for Harvey Fiske, 29 Nassau St., New York City.

PLAINFIELD, N. J.—H. P. Kirby, Arch., 35 West 31st St., New York City, has completed plans for residence to be erected here for Mrs. Emily Goodwin at Belvidere Ave. and Park Lane.

WOODBRIDGE, N. J.—JACOB HANSEN, Perth Amboy, has been awarded contract for building abutments at Woodbridge for Board of Freeholders of Middlesex County. R. J. Dougherty, of New Brunswick, N. J., is Consult. Engr.

NEWARK, N. J.—Rossiter & Wright, 95 Liberty St., have prepared sketches for two new park shelter houses to be erected in Branch Brook Park, Newark, N. J. The construction is to be of brick and cement, 35 × 35 and 30 × 60 respectively. Total cost of two is approximately $15,000. Plans will not go out for figures until early spring.

HOBOKEN, N. J.—Bids for the construction of public school No. 9 at Monroe and Second Sts., Hoboken, N. J., were in excess of the appropriation and all were rejected. Contract will be refigured. Eugene Ciccarelli, Second National Bank Bldg., Hoboken, is Arch.

A. R. Whitney, Jr., & Co., 135 Broadway, New York, contractors for the residence of A. H. Behrens, Castle Point, Hoboken, have awarded the heating contract to JOHNSON E. MORRIS, 30 West 13th St., New York City. Roos & Booraem, 47 Cedar Ave., are Archs.

PHILADELPHIA, PA.—CRAMP & CO., 1421 Filbert St., have received the contract for a six-story addition to warehouse at 419 Cherry St., for Felton, Sibley & Co.

Horace Trumbauer, Arch., Land Title Bldg., has invited bids for bank at 40th and Market Sts., for the Hamilton Trust Co.

E. V. Seeler, Arch., Real Estate Trust Bldg., will prepare plans for an office building at Juniper and Filbert Sts.

Hewitt Bros., Bullitt Bldg., have plans completed and will take bids in the spring for an addition to the Bellevue-Stratford Hotel at Broad and Walnut Sts. Cost, $600,000.

PITTSBURG, PA.—Palmer & Hornbostle, 63 William St., New York, are Archs., for the synagogue, owned by Rodef Sholem Congregation, to be built on Fifth Ave., near Bidwell St., Pittsburg.

BALTIMORE, MD.—Bids are being received until Dec. 6 for construction of a retail market and night school to be erected on Center Market Space. Simonson & Pietsch, Archs., American Bldg.

WASHINGTON, D. C.—Bids are asked by Building Committee, U. S. Dept. of Agriculture, Washington, D. C., until 2 p. m., Jan. 5, for the installation of the heating and ventilation and special piping systems of two laboratory buildings for the U. S. Department of Agriculture. B. T. Galloway, Chn.

Bids will be received at the same time and place for the installation of electric wiring and conduit systems of two laboratory buildings.

WASHINGTON, D. C.—RICHARDSON & BURGESS, Colorado Bldg., have received the contract for club house for the Metropolitan Club. Cost, $300,000.

Bids were opened Nov. 25 at the office of Elliott Woods, Supt. of Capitol, for laying of rough brick work for Senate Office building. The following bids were received: Brennan Construction Co., $3.35 per cu. yd.; George Hughes, $3.54½; Ambrose B. Stannard, $3.68; Richardson & Burgess, $4.25¼; Fissell & Wagner, $4.73; F. C. Corliss, $4.96; Mankin Const. Co., $6.73.

Bids were opened Nov. 25 at office of James Knox Taylor, Arch., for furnishing and placing lighting fixtures for the west out-building of the Bureau of Engraving and Printing, Washington, D. C. The bids were as follows: Mitchell, Vance & Co., New York City, $3,085; Horn & Brennan, Philadelphia, Pa., $2,917.

Harry P. Ward, 816 17th St., N. W., will have plans prepared for a seven-story apartment house at 18th and J Sts.

WILMINGTON, N. C.—J. F. Garrell will erect a six-story apartment house, at a cost of $100,000.

OXFORD, N. C.—The Oxford Female Seminary will rebuild at once the building burned recently. Address the President.

CHARLESTON, S. C.—Contract for new union station to be erected here has been awarded to GRANT WILKINS, of Atlanta, Ga. Cost, $150,000. Work will be started at an early date.

AUGUSTA, GA.—Preliminary drawings will be received by Lawton B. Evans, Secy. Bd. of Education, up to Jan. 15 for a public school building to contain 20 rooms.

SAVANNAH, GA.—A new high school building will be erected at a cost of between $60,000 to $75,000. G. L. Normann, Arch., Equitable Bldg., Atlanta.

GREENSBORO, ALA.—The county has voted to issue bonds for the erection of a court-house. County Clerk can inform.

SHREVEPORT, LA.—The city hall here, which was destroyed by fire Nov. 20, will be rebuilt. Andrew Querbes, Mayor.

MEMPHIS, TENN.—Sazerac Catering Co. has secured a 15-year lease on the four-story brick property at Second and Madison Sts. Building will be remodeled and fitted for hotel, at a cost of between $60,000 and $80,000. Chighizola, Hanker & Cairns, Archs., Memphis.

MEMPHIS, TENN.—The Masons are considering demolishing their present Masonic Temple, and in its place erecting new home to cost about $200,000. Address A. H. Kortrecht, Equitable Life Bldg.

MEMPHIS, TENN.—The C. J. Wagner Land & Investment Co. will erect seven residences, at a cost of $31,500.

MEMPHIS, TENN.—Hale & Rogers, 92 William St., are architects for the new $1,000,000 court-house to be located at Memphis, Tenn. Several preliminary sketches will be submitted to committee this week. No further details until sketches are approved.

AKRON, O.—D. H. Burnham & Co., 9 Jackson Blvd., Chicago, Ill., have started plans for a church, to be erected at Akron, for the St. Paul's Episcopal Congregation, Akron. Cost, $275,000.

CLEVELAND, O.—The Dime Savings & Trust Co., 85 The Square, has had sketches made for a 17-story bank and office building, 60 × 90 ft. Cost, $400,000.

SOUTH BEND, IND.—S. S. Beman, Arch., is taking figures for an orphan's home, to be erected at South Bend for the Children's Aid Society, South Bend. Cost, $80,000.

FRANKLIN, IND.—The trustees of Franklin College are preparing to ask for bids for the construction of a dormitory, gymnasium and science hall, the aggregate cost to be $100,000. Dr. Bryan, Pres.

ANNAPOLIS, IND.—Ernest Flagg, 35 Wall St., is preparing sketches for an experimental station in connection with the group already under way for the United States Naval Academy at Annapolis, Md. It will be 1 story, 200 × 300, built of reinforced concrete.

DETROIT, MICH.—Capt. P. Whitworth, Q. M. G., awarded general contract for the erection of barracks at Fort Wayne, to WM. HAMILTON, of Des Moines, Ia., for $122,237.

ISHPEMING, MICH.—Charlton & Kuenzli, Marquette, Mich., are preparing plans for bank building for the Miners' Natl. Bank, at Main and Front Sts., Ishpeming.

SAULT STE. MARIE, MICH.—The city is asking for new federal building, to cost $100,000. A mass meeting is called to agitate the matter.

HANCOCK, MICH.—Arch. H. T. Liebert has completed plans for an Elks Temple and club-house to be erected here. The plans were adopted, and JAMES McGLYNN was given the contract for the foundations and bids are being received for the superstructure.

CHICAGO, ILL.—D. H. Burnham & Co., Archs., 9 Jackson Blvd., are taking figures for bank and office building to be erected at Adams and Clark Sts., for the Commercial Nat'l Bank, Dearborn and Monroe Sts. Cost, $3,500,000.

E. R. Krause, Arch., 100 Washington St., is about to let mason contract for warehouse, to be erected at 14th and State Sts., for E. J. Lehmann Estate. Brick and stone, mill construction, 8 stories, 60 × 143 ft. Architect will take bids on other lines later on. Cost, $100,000.

L. M. Mitchell, Arch., 145 La Salle St., has completed plans for an apartment building to be erected at 61st St. and Drexel Ave., for Wm. Sear. Cost, $100,000.

The Chicago Club is contemplating the erection of new club-house, to be ten stories, and to cost in the neighborhood of $1,000,000. Architects are now working on plans, which will be submitted to the directors at their meeting in February.

ROCKFORD, ILL.—It is stated that H. C. Scovill, Clk., has advertised for plans for new high school building to be submitted by Jan. 10. Cost, $100,000.

MINNEAPOLIS, MINN.—S. J. Bowler, Arch., 560 Bank of Commerce Bldg., is preparing plans and will take figures after Jan. 1 for a five-story hotel, 75 × 150 ft., for the Great Western Building & Improvement Co. Cost, $100,000.

MINNEAPOLIS, MINN.—Arch. L. A. Lamoreaux, of Minneapolis, is preparing plans for an administration building for city hospital to be erected on Fifth St. It will be three stories high, 96 × 90, made of pressed brick and cut stone and fireproof throughout. Cost, $60,000.

C. F. HAGLIN was awarded the contract for superstructure of main building for the Northwestern Telephone Exchange. The structure will be four stories high, fireproof, concrete construction, having elevators, steam heating, etc. Cost, $50,000.

ST. PAUL, MINN.—Arch. C. H. Johnston, St. Paul, is preparing plans for new Y. M. C. A. building to be erected here. It will be six stories high, have fireproofing, steam heating, electric elevators, gymnasium, hall seating 500, swimming pool, etc. Cost, $250,000.

FORT LEAVENWORTH, KAN.—Bids are asked by Capt. J. E. Normoyle, Q. M., until 11 a. m., Dec. 18, for construction of Grant Hall and remodeling Sherman and Sheridan Halls, including plumbing, heating and electric wiring at Ft. Leavenworth.

LINCOLN, NEB.—Separate proposals will be received by J. I. Wyer, Library Hall, State University, until 10 a. m., Dec. 16, for construction, steam heating and plumbing and electric wiring for temple building. John Latenser, Arch., Omaha.

EVANSTON, WYO.—Bids were opened Nov. 22 at the office of James Knox Taylor, Supv. Arch., Washington, D. C., for the installation of heating plant in the U. S. public building at Evanston. Bids were as follows: The Midgeley Co., Salt Lake City, Utah, $5,500; Iowa Mfg. Co., Osceloosa, Ia., $5,456; A. J. Archambeau, Minneapolis, Minn., $6,284; G. A. Kees Domestic Engineering Co., St. Paul, $4,890; T. M. Maguire, Minneapolis, $5,947.

SEDALIA, MO.—The Sedalia Country Club expects to build a club-house next spring. No plans made. Lee Montgomery is Secy.

SPRINGFIELD, MO.—Barnett [illegible] Haynes & Barnett, Archs., Frisco Bldg., St. Louis, have plans ready for figures [illegible] Dec. 10 for a seven-story hotel, 100 × 1[illegible] for the Colonial Hotel Building Co., [illegible] Woodruff, Pres., Springfield. Cost, $[illegible]00.

NEW MADRID, MO.—The co[illegible] will vote on a proposition to build a [illegible] court-house and a $15,000 jail. Ad[illegible] County Clerk.

FORT ARTHUR, TEX.—T[illegible] manual school building will be erected [illegible] cost of $52,000. J. M. BROWN is the co[illegible]tor.

DALLAS, TEX.—The city has [illegible]ted to issue $300,000 of bonds for the [illegible]tion of school buildings. Mayor can in[illegible]

BEAUMONT, TEX.—Bids are [illegible] until Dec. 6 for the erection and [illegible]tion of church building at Beaumont for the Methodist congregation. Geo. O'B. M[illegible] Chn. Bldg. Com.

FORT WORTH, TEX.—The Co[illegible] Ave. Baptist Church will erect a new [illegible] at a cost of $55,000. Dr. F. M. [illegible] is pastor.

DALLAS, TEX.—We are informe[illegible] that the contract for the three-story buildi[illegible] 55 × 370 ft., for Holy Trinity College [illegible] will be awarded about the latter part of January. H. A. Overbeck, Arch., Slaughter Bldg., Dallas. Cost, $150,000.

DENVER, COLO.—A. R. WHITNEY, JR., & CO., 135 Broadway, New York City, are the general contractors for the new 8-story Symes building, at Campa and 16th Sts. Brick, stone and terra cotta, 100 ft. × 150 ft. Approximated cost is $400,000. Hunt & Hunt, 28 East 21st St., New York, are Archs. Gunvall Aus, 79 Wall St., is Engr.

RIVERSIDE, CAL.—Bids are asked by C. F. Larabee, Act. Comr., Indian Affairs, Washington, D. C., until 2 p. m., Jan. 2, for constructing complete a brick industrial building with plumbing, electric light and water and sewer connections. Harwood Hall, Supt., Riverside.

FRESNO, CAL.—We are informed that plans have been completed and accepted for new city hall. Geo. L. Hoxie, Cy. Engr.

PRESCOTT, ARIZ.—Bids are asked until 3 p. m., Dec. 22, for construction, plumbing, hot water heating, and electric wiring of hospital at Whipple Barracks, Ariz. Capt. Chas. C. Walcutt, Jr., Q. M. (Advertised, Engineering News.)

WATER SUPPLY—IRRIGATION.

The names of parties awarded contracts are printed in capital letters.

CHICOPEE, MASS.—Water Commissioners are to report Dec. 4 to Board of Aldermen, on laying about a mile of 6-in. pipe to supply Fairview. Extension would cost about $10,000.

SPRINGFIELD, MASS.—We are advised that City Council has appropriated money for an intermittant sand filter, four acres in extent, to filter Ludlow reservoir water during the Anabaena season every summer. Report on the matter was made Nov. 20 by Allen Hazen, Consult. Engr., New York. A 30,000 cu. yd. preliminary grading contract has been let to F. T. LEY & CO., Springfield, for 29¾ cts. per cu. yd. E. E. Lockridge is Engr., W. Dept.

PITTSFIELD, MASS. — Preliminary work has been completed and site is said to have been selected for proposed new storage reservoir for this city. Plans and estimates for proposed reservoir are to be submitted to Board Public Works about Jan. 1. A. A. Fobes is Cy. Engr.

PROVIDENCE, R. I.—Bids were opened Nov. 16 by Dept. Pub. Wks., Herbert E. Woods, Secy., for furnishing cast iron water pipe, the contract being awarded to the WARREN FOUNDRY & MACHINE CO., New York, for about $201,151.

BUFFALO, N. Y.—Bids are asked by Department Public Works, Francis G. Ward, Comr., until 11 a. m., Dec. 6, for constructing tunnel under Buffalo River, near southerly end of Ohio St., in which to lay a water pipe for supplying property south of Buffalo River.

LOCKPORT, N. Y.—Council has called special election for Dec. 19 to take action on two municipal water supply propositions. The propositions have the Tonawanda Creek or Niagara River as sources of supply. Necessary plant in either case would cost about $500,000.

NEW YORK, N. Y.—Bids are asked by John T. Oakley, Comr. Water Supply, Gas and Electricity, 13 Park Row, until 2 p. m., Dec. 13, for furnishing, delivering and laying water mains in Columbus and 9th Aves., 62d St., Central Park West and in Central Park. Cost is between $300,000 and $400,000. Bids are also asked for other work as follows: Furnishing and delivering double nozzle standard New York hydrants, lead lined iron pipe, unions, elbows and couplings, furnishing and delivering cast-iron flanged pipe, special castings, etc.; furnishing, delivering and laying water mains, and furnishing, delivering and setting 21 fire hydrants in College Point; furnishing, delivering and laying water mains in several streets of Queens Borough.

SYRACUSE, N. Y.—Matter of installing water-works at State fair grounds is under consideration. Wells could be sunk and a reservoir constructed. S. D. Willard, Geneva, N. Y., is State Fair Comr.

NEW YORK, N. Y.—Following bids were received Nov. 22 by John T. Oakley, Comr. Water Supply, Gas and Electricity, for furnishing, delivering and laying high pressure fire service mains and appurtenances: Lynch Contracting Co., West 26th St. New York, $3,700,445; Frank Bradley, 80th St. and Broadway, New York, $3,571,365. See under Contract Prices.

AUBURN, N. Y.—Specifications for furnishing 36-in. wrought iron intake pipe and flexible joints may be seen at office of Engineering News, 220 Broadway, New York. Bids are asked until Dec. 6, as is stated in our advertising columns.

SENECA FALLS, N. Y.—Matter of erecting municipal water system here is again being agitated.

PERTH AMBOY, N. J.—D. J. Currie, at $9,700, was only bidder Nov. 15, for furnishing material and constructing a suction well at Runyon. Water Commissioners, S. J. Mason, Engr., rejected this bid, and revise the plans and ask for new bids.

AVON BY THE SEA, N. J.—Contract for laying water mains Avon is stated to have been let to Frank Spinner, New York, for $9,000.

ALLENHURST, N. J.—West Allenhurst Water Co., recently incorporated with $30,000 capital, is stated to have decided to begin laying its mains at once. H. H. Wainwright, Manasquan, N. J., and J. E. Wortman, Asbury Park, N. J., are interested.

BRISTOL, PA.—Borough Councils, J. E. Grundy, Pres., contemplate the erection of new water-works. J. M. Witham, Bartlett Bldg., Philadelphia, is Engr.

LEBANON, PA.—Bids were opened Nov. 16 by City Commissioners, J. N. Shaffer, Clk., for constructing water-works for township of West Lebanon, the contract being let to Bolton G. Coon, Kingston, Pa., for $15,927. Work includes about 14,000 ft., 4-in., 6-in., 8-in. and 10-in. bell and spigot pipe and roofed reservoir of 300,000 gallons capacity. Bids will be given under Contract Prices.

SHARON, PA.—Contract for building dam for Mahoning Valley Water Co.'s reservoir on Yellow Creek, south of Struther, is stated to have been let to WILLIAM McINTYRE & SONS, Sharon, Pa. According to press reports the dam is to be 300 ft. long, 45 ft. thick at the base, 16 ft. at the top and 68 ft. high. The cost of the construction will be about $100,000.

PARKUSBURG, W. VA.—We are advised that it will probably be 60 days before anything further than the preparation of specifications will be done for proposed new water-works for this city. Supply is to be taken from wells, instead of the river, as is now the case. Proceedings have been taken to call an election to vote on a bond issue for the new plant. G. L. McKibben, 215 E. Main St., Van Wert, O., is Engr. Mentioned Nov. 16.

PIEDMONT, W. VA.—Bonds have been issued by this town for water-works.

BATON ROUGE, LA.—Special Committee, of which Councilman Ben R. Mayer is member, is to investigate as to advisability of city's purchasing local works or building new one.

SOUTH PITTSBURG, TENN.—City has about concluded negotiations for purchase of local water-works. Improvements may be made.

CANTON, O.—Ordinances have been passed authorizing Board Public Service to expend $3,000 for extension of water mains.

CLEVELAND, O.—Bids are asked by Board Public Service, A. R. Callow, Secy., until noon, Dec. 18, for the construction, delivery and erection of two 2,000,000 gallon pumping engines. (Advertised, Engineering News.

WOOSTER, O.—We are advised that nothing has been done toward improving water-works, except to hold some meetings with the view of getting the citizens to see need of a better water supply. James Mullens is Member Com.

CONNERSVILLE, IND.—We are advised that proposition for extension of city water-works is now before Council. Works would require new wells, new pumps and power and 1,000,000 gallon reservoir. Est. cost is $30,000. E. M. Carr, Newcastle, Ind., is Des. Engr. F. H. Gray is Mayor.

SAGINAW, MICH.—An expenditure of $100,000 for improvement of East Side and West Side pumping stations is reported under consideration by the Water Commissioners.

KIRKWOOD, ILL.—Bids are asked by C. E. McLinn, Village Clk., until 7 p. m., Dec. 15, for drilling a deep well.

MUSKEGON HEIGHTS, ILL.—We are advised that proposition for new city water-works will not be submitted to the citizens until January. Supply is to be from well, and it is proposed to use electric pumps, and a stand-pipe. Est. cost is $35,000. Herbert Pedler is Secy. Com.

LOVINGTON, ILL.—Bids are asked by this village up to 8 p. m., Dec. 15, for one 60,000 gallon steel water tank erected on steel tower giving total height of not less than 110 ft. Plans and specifications are on file with the Village Clerk at Lovington and with M. A. Earl, Engr., First National Bank Bldg., Chicago, Ill.

MANITOWOC, WIS.—Council has instructed city engineer to prepare plans and specifications for a municipal water-works plant to cost $180,000; bonds will be issued.

ALBIA, IA.—City is considering erection of water-works.

DES MOINES, IA.—Des Moines Water-Works Co., according to reports, is to make several extensions and other improvements.

ST. PAUL, MINN.—Bids are asked by County Commissioners, E. G. Krahmer, County Audr., until 10 a. m., Dec. 4, for sinking a 400 ft. deep, 12-in. well, in North St. Paul.

Water Commissioners have recommended the laying of over eight miles of mains, to include 36,170 ft. 6-in.; 5,880 ft. 12-in., and 1,000 ft. 16-in. pipe.

VERNON CENTER, MINN. — City may vote on bonding for $5,000 for installing water-works.

NEBRASKA.—The Secretary of the Interior has awarded contract to W. C. MORRISON, Denver, Colo., on schedules 1 and 2 for construction of the first 45 miles of the Interstate Canal, North Platte Project, Neb. Mr. Morrison's bids are: Schedule 1, $27,070.40; schedule 2, $103,806.30.

ARKANSAS CITY, KAN.—Election was to be held Nov. 21 to vote on $20,000 bond issue for improving water-works.

MONTANA.—The Secretary of the Interior has executed a contract and approved the bond of WALTER D. LOVELL, Minneapolis, Minn., for the construction of Division No. 2, of the first contract main canal, Huntley Project, Montana. Mr. Lovell's bid was $45,245 and calls for the handling of approximately 325,000 cu. yds. of earth. The secretary also awarded contract to CALLAHAN, KATZ, PHELAN & SHIRLEY, Omaha, Neb. for the construction and completion of Division No. 3, main canal, Huntley Project, Montana. Contract of the above firm was for $53,210, and involves the handling of 370,000 cu. yds. of earth.

GLENDIVE, MONT.—Bids were opened Nov. 15 by U. S. Reclamation Service, H. N. Savage, Supervising Engr., A. J. Wiley, Consult. Engr., F. E. Weymouth, Project Engr., for constructing main canal and lateral system, Lower Yellowstone Project, Montana and North Dakota, the lowest bid on each division being as follows: Widell, Finley Co., Mankato, Minn., Division 5, $141,403; Division 7, $7,649; Division 9, $7,035; Laterals A and B, $3,880; Lateral C, $4,658; Laterals D and E, $7,713; Laterals Fa and G, $7,938; Laterals I, J, Ja, and Jb, $5,378; Lateral K, $9,433; Lateral L, $4,978; Lateral M, $4,818. (The bids of this firm on Divisions 7, 8 and 9, and the laterals were conditional to receipt of contract for Divisions 5 and 6); Nels L. Olsen, Butte, Mont., Division 6, $43,273; Lamb & Frye, Glendive, Mont., Division 8, $5,439; Lateral F, $12,639; Laterals O and P, $6,237; Noble & Mann, Buford, N. Dak., Lateral N, $5,727. Itemized bid will be given under Contract Prices.

MONETT, MO.—Election is to be held Dec. 5 to vote on issuing $6,500 of bonds for installing new pumping station.

BRYAN, TEX.—Charter of Bryan Water, Ice & Power Co., has been amended so that its capital can be increased from $20,000 to $40,000.

CLIFTON, TEX.—City has voted to issue $10,000 of bonds for installing water-works.

OKLAHOMA CITY, OKLA. — City has voted to issue $450,000 of bonds, part of which will go for new water-works.

TECUMSEH, OKLA.—Election may be called to vote on a $50,000 bond issue for constructing new water-works.

ATOKA, IND. T.—City has voted to issue $30,000 of bonds for water-works.

MUSKOGEE, IND. T.—See under Sewerage.

CHICKASHA, IND. T.—Election will be held to vote on $50,000 bond issue, part of which is for water-works extension.

DENVER, COLO.—The Secretary of the Interior has approved the bids of the Deadwood Construction Co., Deadwood, S. Dak., for sections 1, 2, 3, 4, 5 and 8 of the main canal of the Interstate Canal, North Platte Project, Nebraska. This contract calls for the excavation of approximately 2,071,000 cu. yds. of earth and an overhaul of 820,000 cu. yds. The estimated cost is $309,351. Section six on the same canal was awarded to JAMES O'CONNOR, of Mitchell, S. Dak., and calls for the excavation of 400,100 cu. yds. of earth, and 100,000 cu. yds. of overhaul. The contract price is $71,360. Section 7 was awarded to the BURKE CONSTRUCTION CO., St. Louis, Mo., and calls for the excavation of 410,200 cu. yds. of earth, and an overhaul of 120,000 cu. yds. The estimated cost is $76,240. Bids for this work were opened Nov. 8 by U. S. Reclamation Service, and were given under Contract Prices in our issue of Nov. 16.

TRINIDAD, COLO.—We are advised that preliminary survey has been made for securing supply of mountain water for this city. Estimate of cost and map and profile are being prepared. Chas. H. Nichols is Mayor.

BOULDER, COLO.—We are advised that all bids received for seven miles of pipe line, wood and steel, est. cost $76,000, were rejected. Matter will probably be taken up again next spring, and a further extension of nine miles made. J. P. Maxwell is Cy. Engr.

GREELEY, COLO.—G. G. Anderson, Consult. Engr., Denver, Colo., has reported to city on construction of new water system, supply for which is to be obtained in mountains. $250,000 has been voted for the water-works, and if the report is adopted, it is said, that filtering and settling basins will be installed at the mouth of the Poudre Canon, about twelve miles above Fort Collins. From there the water will be piped to a reservoir and distributed by the old mains through the city.

SANTA FE, N. MEX.—Congressman Jas. H. Southard, Col. J. C. Bonner, Clarence Leeper, Prof. J. G. Halapleus and R. E. Hamblin, all of Toledo, O., are reported interested in a project to supply this city with water. Investigations are now being made with a view to obtain a supply from a mountain stream, 12 miles distant from the city. If the project is tangeable a company will probably be formed to undertake the work.

SILVER CITY, N. MEX.—Silver City Valley Water-Works Co., capitalized at $30,000, has been incorporated. W. D. Murray, Thos. L. Lowe and W. E. Burnside, Silver City, are incorporators.

SOCORRO, N. MEX.—Socorro Water, Light & Ice Co., capitalized at $30,000, has been organized by Frank Owen, Santa Fe, N. Mex., H. O. Bursum and W. E. Martin, of Socorro.

DEMING, N. MEX.—Deming City Water Co., capitalized at $100,000, has been incorporated. Company proposes to pump underflow of Mimbres River for domestic and irrigation purposes. Incorporators: Paschal R. Smith, W. C. Wallis, James R. Waddill, J. J. Bennett and J. B. Hodgin, of Deming.

CENTRALIA, WASH. — We are informed that Centralia Water Co., Harry L. Johnson, Mgr., Tacoma, Wash., propose to get a new pump and to enlarge its plant. B. F. Dodge, Supt. W.-W., is official in charge.

VANCOUVER BARRACKS, WASH.—Following bids were opened Nov. 22 by Constructing Quartermaster for extension of water supply and sewerage: (1) Water extension, (2) sewer extension, (3) total: McInnis & Reed, Portland, Ore., (1) 5,013, (2) $1,035, (3) $6,048; International Contract Co., Seattle, Wash., (1) $3,988, (2) $998, (3) $4,986; Crawford, Marshall Co., Vancouver, Wash., (1) $4,148, (2) $796, (3) $4,944; M. R. Sparks, Vancouver, Wash, (1) $4,314, (2) $797, (3) $5,111; Joseph Paquet, Portland, Oregon, (1) $4,000, (2) $960, (3) $4,960; Larney & Kiggins, Vancouver, Wash., (1) $3,921, (2) $343, (3) $4,764. All proposals forwarded to the Q. M. General for award.

TACOMA, WASH.—Leo H. Long, Tacoma, has applied to the Pierce County Commissioners for a franchise for building a water-works system to supply residents of the Indian Addition.

ANAHEIM, CAL.—We are advised that election which was to have been held Nov. 11 to vote on a $23,000 bond issue for water-works purposes, was indefinitely postponed, owing to an error of printer in the advertisement. Edw. B. Merritt is Cy. Clk.

GRANGEVILLE, IDAHO.—Geo. M. Reed has option on plant of Grangeville Water Co. and proposes to form an association for purchase and improvement of the system. It is also stated that Messrs. McGrane, Talkinton and Evans have applied for franchise for another water company.

CHIPPAWA, ONT.—We are advised that preliminary work only is being done for water-works for this place. It will be some months before necessary by-laws are passed for the work ready for bids. John H. Jackson, Niagara Falls, Canada, is Engr.

INGERSOLL, ONT.—Report on water-works for this place is to be made by E. B. Calkins, Engr., Watertown, N. Y.

SEWERAGE.

The names of parties awarded contracts are printed in capital letters.

BOSTON, MASS.—Bids were received Nov. 23 for building sewer in Walker St., between Dunbar and Weld Streets, West Roxbury, Mass., the contract being awarded to McBRIDE & CO., Brighton, Mass., for $3,736.

WM. J. BARRY, 58 Kenwood Road, Roxbury, has been awarded the contract for building Section 5 of the Talbot Ave. high level sewer, Boston, Mass., for $14,312.

P. W. HILL, 141 West Canton St., Boston, Mass., has been awarded the contract for building Section 6 of the Talbot Ave. high level sewer, Boston, Mass., for $8,161.

SALEM, MASS.—Pitman & Brown, Salem, Mass., was lowest bidder for building a brick pumping station at Salem, Mass., for the Sewerage Commissioners. Bids received Nov. 27. F. A. Houdlette & Son, 93 Broad St., Boston, was lowest bidder for furnishing cast-iron pipe and special castings for the Sewerage Commissioners. Bids received Nov. 27.

NEWARK, N. Y.—Village is stated to be preparing to vote on proposition to expend $75,000 for sewer system. R. A. S. Bloomer is Member Municipal Board. Mentioned Nov. 16.

FULTON, N. Y.—Contractor who was building sewer system for the West Side is stated to have given up the contract. City will complete the work itself, under supervision of City Engineer.

JAMESTOWN, N. Y.—Board Public Works has recommended that sewers in Prendergast Ave. be extended for a distance of 1,690 ft. north from Prince St. to a flush tank.

AVON BY THE SEA, N. J.—Contract amounting to about $11,000 for constructing sewers here has been let to CHARLES IPPILIO, Montclair, N. J.

TRENTON, N. J.—Bids are asked until 8 p. m., Dec. 5, for construction of drain in Hermitage Ave., from Boudinot St. to the Delaware River. Harry R. Salter, Cy. Clk. Bids are also asked for constructing sewer in Gordon St.

CARLISLE, PA.—Borough is considering installation of sewer system. Septic tank system of disposal would probably be used. Jas. Potter is Boro. Engr.

FORT OGLETHORPE, GA.—Bids are asked until 11 a. m., Dec. 18, for building an addition to the bacterial purification plant for sewage at Fort Oglethorpe. Capt. C. Nixon, Q. M., U. S. A. (Advertised, Engineering News.)

WINCHESTER, TENN.—City has voted against issuing $40,000 of bonds for constructing sewer system.

AKRON, O.—Bids are asked by Board Public Service, Chas. H. Watters, Secy., until noon, Dec. 5, for constructing local sewer in Valley St., from Gold St. to North St.

COLUMBUS, O.—The itemized bids received Nov. 2 for constructing sewage purification works for this city will be given under Contract Prices in our next week's issue. Contract was let to SULLIVAN, MURPHY & MILES, Columbus, as was stated in our last week's issue.

NORWALK, O.—E. G. Bradbury, Columbus, O., is to prepare plans and specifications for sewers and sewage disposal plant for this city. B. A. Blume is Acting Mayor.

DAYTON, O.—City Engineer has been directed to prepare plans for a storm water sewer in Demphle Ave., from St. Joseph Ave. to St. Paul Ave.

LOCKLAND, O.—Steps are to be taken soon, according to reports, for construction of an $80,000 sewer system for this place. Proposition carried at last election, at which Dr. G. W. Davis was elected Mayor. Post Office is Station R., Cincinnati, O.

NORWOOD, O.—Bids are reported asked by Board Public Service, J. E. Thorpe, Clk., until Dec. 2, for constructing 24-in. storm sewer in Lincoln Ave.

ST. MARYS, O.—We are advised that a sewer system is to be constructed here next year.

ANN ARBOR, MICH.—Contract for constructing William St. storm sewer has been let to HUTZEL & CO.

PRINCETON, IND.—Council proposes to have work started next spring for a sanitary and storm sewer system. Septic tank system of sewage disposal will likely be used for the sanitary sewers, while the storm sewers will discharge into the river. Edwin E. Watt, Princeton, is Des. Engr.

SOUTH BEND, IND.—Board Public Works has been asked to construct pipe sewer in North Walnut St. and Linden Ave. from Fassnacht Ave. to Birdsell St. A. J. Hammond is Cy. Engr.

RIVER ROUGE, MICH.—Plans have been submitted to the village council for a sewer system. System is to comprise both storm and sanitary sewers and is to cost $150,000. Mason L. Brown, Chamber of Commerce Bldg., Detroit, Mich., is Engr.

GENEVA, ILL.—We are advised that work of constructing 4,000 ft. 12-in. pipe sewers, average cut 7 ft., has been postponed until next spring. C. A. Prout, Elgin, Ill., is Des. Engr., and official in charge.

CLINTON, IA.—Contract for constructing sewer in Block 48 has been let to CAREY & SON, for $2,048. Bids were opened Nov. 14.

SOUTH ST. PAUL, MINN.—Bids are asked by J. J. O'Brien, Cy. Recdr., until 7 p. m., Dec. 6, for laying 1,275 ft. of 18-in. pipe sewer.

CLEVELAND, OKLA.—Preliminary surveys have been completed for a sewer system, and matter of voting bonds for its construction will probably be voted on in three or four weeks. D. B. Merry, Tulsa, Ind. T., is Engr.

OKLAHOMA CITY, OKLA.—A $450,000 bond issue has been voted, part of which is for new sewers.

DENVER, COLO.—Board Public Works has created a new sewer district for Montclair, and City Engineer has been directed to prepare plans for the sewers, which will probably be built next summer. Est. cost is $700,000.

CHICKASHA, IND. T.—A $50,000 bond issue is to be voted on by this city. Part of the proceeds will be used for sewerage extensions.

MUSKOGEE, IND. T.—Bids are asked by City Recorder until 8 p. m., Dec. 21, for the construction of approximately ten miles of sanitary and storm sewers and six miles of water mains, together with all appurtenances and connections for same. M. A. Earl, Engr., First National Bank Bldg., Chicago, Ill., or Old Homestead Bldg., Muskogee, Ind. T.

NORTH YAKIMA, WASH.—We are advised that contract for constructing sewer system was awarded Nov. 16 to PATRICK MULLINS, North Yakima, for $49,960.

VANCOUVER BARRACKS, WASH.—See under Water Supply—Irrigation.

SEATTLE, WASH.—Assistant City Engineer Dimock has completed plans for the trunk system which the city proposes to establish to serve all the northern sections. The total length will be ten miles, and the cost is roughly estimated to be in the neighborhood of $1,500,000.

ST. JOHNS, ORE.—We are informed that William W. Goodrich, Cy. Engr., is preparing plans for an extensive system of sewers for this place, as well as for two other towns. Plans are also being prepared for opening new streets. Mr. Goodrich's office is in Portland, Ore.

SAN FRANCISCO, CAL.—Board Public Works on Nov. 16 awarded contract for constructing Union St. sewer to HEALY, TIBBITTS & CO., 42 Stewart St., San Francisco, for $47,604. Contracts for sewer work in vicinity of Arkansas St., amounting to about $5,700, awarded to J. A. DOWLING, and to FLINN & TREACY.

SALT LAKE CITY, UTAH.—City Council has passed ordinances for the construction of the following sewers: On both sides of J St., between Second and Third Sts.; both sides of Seventh St., between B and C Sts.; both sides of Third St., between G and H Sts. Geo. W. Riter is Cy. Engr.

NIAGARA FALLS, ONT.—But one bid was received Nov. 16 by City Council for sewer work in Section 20, this being submitted by Langley & Cook, and was as follows: $2,581 for the work, with rock excavation at $4 per cu. yd. extra.

ST. CATHERINES, ONT.—Board of Works has recommended that present sewer system be extended next year, at a cost of about $20,000. City Engineer is to prepare necessary plans.

GARBAGE DISPOSAL.

The names of parties awarded contracts are printed in capital letters.

BROOKLYN, N. Y.—Bids are asked until Dec. 6, noon, for furnishing all labor and materials required for removing snow and ice in Borough of Brooklyn before April 15, 1906. Security required is $50,000. John McGaw Woodbury, Comr. Street Cleaning. Noted last week.

NEW BRITAIN, CONN.—We are informed that bids will be received in April, 1906, for collecting city garbage for one year. F. H. Oldershaw, 259 Main St., is Engr.

LEXINGTON, KY.—Bids are asked by Mayor Thomas A. Combs, until noon, Jan. 4, for the erection of a garbage crematory, to have a capacity of not less than 20 tons of garbage and trash in 12 hours. (Advertised, Engineering News.) Noted last week.

DETROIT, MICH.—The City Controller will receive proposals until Dec. 11 for furnishing and installing on city land a garbage disposal plant or plants, either by incineration or reduction, having a capacity of 200 tons daily, in a strictly sanitary manner. Each bidder to submit plans and specifications, showing manner of disposal. Also certified check for 5 per cent. of amount of bid. Amount available, $100,000. F. A. Blades is Controller. Noted last week.

CHICAGO, ILL.—The lowest bid for city garbage contract was submitted by John Dowdle, at the following figures: 1906, $794,000; 1907, $480,000; 1908, $500,000; 1909, $520,000; 1910, $540,000; total,

$2,834,000. Darling & Co.'s bid was $743,000 a year, or $3,725,000 for five years. Offer to collect and dispose of the garbage has also been received from the National Fuel Garbage Co. The company offers to take care of the garbage for the entire city on the reduction plan for five years at an annual compensation of $75,000. The La Chapelle Pearce Co. has offered to burn the garbage, including the combustible waste, for 50 cts. a ton, based on the estimate of 150,000 tons a year. The city would collect the garbage and own its own teaming system. According to the figures furnished by the city's experts the total cost and equipment for garbage removal and disposal, including the cost of the municipal teaming system and reduction, would be approximately $1,000,000. New bids may be advertised. J. M. Patterson is Comr. of Public Works.

STREETS AND ROADS.

The names of parties awarded contracts are printed in capital letters.

EAST PROVIDENCE, R. I.—Resolution has been introduced in Town Council appropriating $18,000 for the purpose of widening Bullock's Point Ave.; Riverside, to a width of 60 ft., and for the purpose of defining a grade on Taunton Ave.

NIAGARA FALLS, N. Y.—The Board Public Works has decided to advertise for bids at once for the paving of Niagara St. The question of what kind of pavement will be used remains to be settled. W. W. Read is Cy. Engr.

ALBANY, N. Y.—The Common Council at its last meeting passed resolutions for the paving of North Swan St., from Clinton Ave. to First St., and for the laying of a sewer under the sidewalk. An ordinance for changing the grade and paving Genesee St., from North Pearl St. to Broadway, was also passed. Walter Melins, Cy. Engr.

SYRACUSE, N. Y.—The Common Council has adopted ordinances providing for the compulsory paving of Hickory St., East Belden Ave. and Baker St.; also East Adams and North Geddes St., Frank J. Schnauber, Cy. Engr.

SCENECTADY, N. Y.—The Board of Contract and Supply has let the contract for grading Seventh Ave. to A. G. DAVIS, at his bid of 14 cts. a cu. yd. for excavating.

COBLESKILL, N. Y.—The Board of Trustees is considering the improvement of various streets. Est. cost, $55,000.

BALLSTON SPA, N. Y.—The Board of Supervisors has adopted resolutions for the improvement of highways in towns of Wilton and Saratoga. They provide for the improvement of 8½ miles of road.

NEW YORK, N. Y.—Bids are asked by John F. Ahearn, Boro. Pres., until Dec. 4 for constructing parkways on Delancey St.; 19,572 sq. ft. asphalt walks; 200 cu. yds. earth excavation; 3,028 lin. ft. wrought iron picket fence; 3,759 lin. ft. new curb, etc.

BAYONNE, N. J.—Following bids were opened Nov. 21 by City Council, F. W. Dalrymple, Cy. Engr., for paving Avenue C with sheet asphalt: Barber Asphalt Paving Co., 114 Liberty St., New York, $49,562, $52,332; Uvalde Asphalt Paving Co., 26 Court St., Brooklyn, N. Y., $49,783; Warner-Quinlan Asphalt Co., 42 Broadway, New York, $53,124; Lee & MacDonald, $53,400. Itemized bids will be given under Contract Prices.

ATLANTIC CITY, N. J.—Contract for paving 93,000 sq. yds. with asphalt and 12,000 sq. yds. with vitrified fire clay block on Atlantic Ave., has been let to the CLEVELAND (O.) TRINIDAD PAVING CO., for $259,310. List of bidders appeared in issue of Nov. 16.

PHOENIXVILLE, PA.—State Highway Commissioner Hunter has let contract for building of state road from Phoenixville to Valley Forge to DAWSON & DAVIS, of Wayne, for something over $26,000.

YORK, PA.—It is probable that a number of streets here will be paved next year.

SHARON HILL, PA.—The Borough, care W. M. Anderson, Chn. of Council's Committee, is having plans prepared for three miles of macadam roads.

WASHINGTON, D. C.—At the ensuing session of Congress Col. John Biddle, Engr. Commissioner, District of Columbia, will ask Congress to make the appropriation for repaving streets large enough to cover the resurfacing of Pennsylvania Ave. from Seventh to 15th St. The total amount asked by Col. Biddle for resurfacing is $300,000.

LIVEOAK, FLA.—Bids are asked by County Commissioners until Dec. 8 for constructing 40 miles of hard road throughout the county.

BIRMINGHAM, ALA.—City Council has passed an ordinance providing for the paving with bituminous macadam of a portion of First Ave. Julian Kendrick is Cy. Engr.

BIRMINGHAM, ALA.—A report has been submitted by P. S. Milner, County Engr., showing the cost of constructing new road from South Highlands to Rosedale to be $15,000.

CHATTANOOGA, TENN.—The Board Public Works has let contract to NOLL & THOMPSON for grading, paving and improving various streets.

LAKEWOOD (Sta. Cleveland), O.—Sealed bids will be received until Dec. 14 for paving with brick Westwood and Olivewood Aves. in Lakewood village. Henry J. Sensel, Vil. Clk.

CINCINNATI, O.—Bids are asked by Board Public Service until Dec. 12 for grading, curbing and paving a portion of Spring Grove Ave. with bitulithic. Also a portion of Chatham St. with brick.

AKRON, O.—Bids are asked by Board Public Service until 12 m., Dec. 5, for the improvement of Lods St. by grading, curbing and paving with brick. Chas. H. Waters, Secy.

BROOKVILLE, IND.—Bids are asked by County Commissioners until 1 p. m., Dec. 4 for construction of a macadam stone public highway in Ray Township. Chas. A. Miller, County Audr.

TOLEDO, O.—Preliminary legislation for the extension of Superior St. south across Swan Creek, to the junction of Clayton and St. Clair Sts., was approved by Council Committee on Public Improvements. Frank I. Consaul, Ch. Engr. Bd. Pub. Serv.

SHELBYVILLE, IND.—Bids are asked by E. C. Newton, Cy. Clk., until Dec. 12 for the paving of Harrison Ave., Harrison and Washington Sts., and public square with Warren's bitulithic pavement. Also for paving sidewalk on Walker St. with brick.

PRINCETON, IND.—Bids are asked by County Commissioners until Dec. 9 for constructing of 12,495 ft. of macadamized road in White River Township. H. R. Embree, County Audr.

KNOX, IND.—Bids are asked by County Commissioners until Dec. 11 for the improvement and constructing of three gravel roads in Railroad Township, aggregating 21½ miles. L. M. Ramsbottom, County Audr.

Bids will be received at the same time and place for constructing of seven gravel roads aggregating about 25 miles in Oregon Township.

GRAND RAPIDS, MICH.—The Common Council has voted to grade and pave with concrete Auburn Ave. alley and Lake Ave. alley. Common Council voted to pave and gravel Canal St. from Travis Ave. to Dean St. Bids for same to be advertised in January. L. W. Anderson, Cy. Engr.

JACKSONVILLE, ILL. — City Council passed ordinances for 5-ft. brick sidewalks on Ashland and Allen Aves.

GALESBURG, ILL.—This city will advertise for bids after Feb. 15 for two miles of brick paving. Ray Hopecraft, Cy. Clk.

WAUKEGAN, ILL. — This city will lay about 25 miles of concrete sidewalks next spring. R. Miller, Engr.

ALTON, ILL.—City Council has adopted ordinances for street paving, the aggregate officially estimated cost of which is $160,728.

DES MOINES, IA.—We are informed that O. P. HERRICK, 119 West Locust St., Des Moines, has been awarded the contract by Board Public Service for paving sundry streets with brick, 1,950 sq. yds. Bids were opened Nov. 16. John W. Budd, Cy. Engr.

BURLINGTON, IA.—This city will advertise for bids about Dec. 20 for one mile of brick paving on Ninth St. Wm. Steyh, Cy. Engr.

ST. PAUL, MINN.—The City Council is planning the macadamizing of University Ave., from Dale St. to city limits, to combine with a like movement from Minneapolis. The street will also be boulevarded, the improvement to cost $30,000.

LITTLE ROCK, ARK.—The town of Pulaski Heights, a suburb of Little Rock, will put down a considerable amount of paving; curbing and guttering will also be included. This work will be done on not less than 20 blocks. J. A. Josslyn is mayor, his post office address being Little Rock.

EVERETT, WASH.—City Council has voted in favor of improving South Colby Ave., at a cost of $19,433. W. I. Barkhuff, Cy. Engr.

SAN FRANCISCO, CAL.—Thos. P. Woodward, Cy. Engr., has filed specifications for the bituminizing of Mission St. from Porter Ave. to county line at a cost of $9,250. Work will be ordered at once.

STOCKTON, CAL.—George W. Elder, of San Francisco, was the only bidder for the contract of improving streets in north district of the East Side. His bid was $27,889. He did not accompany his bid with a certified check but by a bond signed by two residents of San Francisco. The bondsman not being known, the matter was taken under advisement by Council.

SANTA BARBARA, CAL.—The Board of Supervisors has authorized the construction of over eight miles of road.

SAN FRANCISCO, CAL.—Contract for repaving Stockton St., between Union and Greenwich Sts., was awarded by Board Public Works to CITY STREET IMPROVEMENT CO., their bid being $10,376.

SAN LEANDRO, CAL.—Bids will be received by Board of Trustees until 7.30 p. m., Dec. 4, paving Dabner St., from Davis Ave. to Williams Lane, with macadam. L. J. Martin, Cy. Clk.

BISBEE, ARIZ.—The contract for 3,600 sq. yds. brick pavement on Main St. and Brewery Ave., bids for which were opened Nov. 7, has been let to F. O. BROWN, of Dallas, Tex. C. W. Hicks is Cy. Clk.

MANUFACTURING PLANTS.

The names of parties awarded contracts are printed in capital letters.

NEW YORK N. Y.—W. C. Somerfield, 19 Union Square, is receiving bids on the general contract for factory at 102-104 West 38th St., owned by J. W. Stein & Co., music publishers, 40 × 92 ft., nine stories and basement. No specified time for bids to close.

NEW YORK, N. Y.—Jacob Ruppert Co., 1,359 Third Ave., are taking figures on a boiler house to be erected at 92d St. and Third Ave., from plans by O. C. Wolf, 1025 Arch St., Philadelphia, Pa. Brick, stone and terra cotta, fireproof, 5 stories, 50 × 100 ft.

RENSSELAER, N. Y.—Wm. Barnett & Son will build an addition, 65 × 100 ft., to their plant.

NEWARK, N. J.—J. F. Glasby Lumber Co., 9 Badger Ave., wants figures on one 100 HP. boiler and one 75 HP. Corliss engine for new planing mill, to be erected from private plans at 26-32 Jelepp Ave.

PASSAIC, N. J.—Balthasar Eberle, Prospect St., will erect a mill for the manufacture of powder.

NEWARK, N. J.—MILLER-COLLINS CO., 1135 Broadway, New York City, has been awarded general contract for building eight factory buildings for the Lidgewood Mfg. Co., at Newark. J. V. Beekman, 96 Liberty St., New York City, is in charge. Buildings will be of reinforced concrete, steel and brick. D. C. Newman Collins, 89 Broadway, is the steel engineer. 880 HP. of boilers, 600 HP. engines, 400 KW. of generators, 200 HP. motors will be required.

GARFIELD, N. J.—GENERAL FIRE EXTINGUISHER CO., 111 Broadway, New York City, has been awarded the contract for automatic sprinklers for new factory to be erected at Garfield for the New Jersey Worsted Spinning Co. J. T. Kelley, of Passaic, is Arch. J. W. Ferguson Co., of Paterson, has general contract. Cost, $300,000.

NEWARK, N. J.—G. K. Hooper, Arch., 11 Broadway, New York City, is taking figures on foundry to be erected at Bruen and Green Sts. for Gould & Eberhardt, 111 New Jersey Railroad Ave. Brick, fireproof, 2 stories, 50 × 100 ft.

PHILADELPHIA, PA.—Archs. Ballinger & Perrot, 1200 Chestnut St., are preparing plans for a four-story factory at Butler St. for Tunnell & Co.

WILMINGTON, DEL.—Arch. John D. Thompson has received bids for additions to car shops for the Harlan & Hollingsworth Corporation. Brick, one story, 400 ft. long.

BALTIMORE, MD. — The Independent Lumber & Milling Co. has been incorporated with $50,000 capital stock. A plant will be established to manufacture sash, doors and building materials. Irvine W. German, 327 St. Paul St., is in charge.

The South Baltimore Steel Car & Foundry Co., Howard Carlton, Pres., Continental Bldg., has increased its capital stock from $1,000,000 to $1,500,000 for the purpose of developing its plant at Curtis Bay, near Baltimore.

BENWOOD, W. VA.—Robt. Smith, Leonard Geoglein, Jas. Smith and others contemplate organizing a company with $75,000 capital stock to erect and operate a brewery.

WILMINGTON, N. C.—The Ice Mfg. Co. has been chartered to manufacture ice and to build and operate ice factories. Incorporators: W. E. Worth, Wilmington; G. L. Baker, Columbia; W. J. Rushton, Birmingham, and others.

CHICKAMAUGA, GA.—R. C. Stotts is in the market for complete outfit of machinery for roller flouring mill.

ROME, GA.—The Cundell Lumber Co. will erect a new planing mill.

MARIETTA, GA.—A large canning factory is to be erected here. E. P. Green, A. M. Edward and others are interested and can give information.

SAVANNAH, GA.—The American Co. will establish a large plant here for the manufacture of cans, at an estimated cost of $350,000. E. R. Phillip, representing the company, is in the city looking after the matter. The city will rent the company a site and the Mayor can give information.

AUGUSTA, GA.—H. A. Worthington, of Knoxville, Tenn., contemplates locating a factory here to manufacture upholstered furniture, lounges, etc. Secretary Chamber of Commerce can inform.

SPARKS, GA.—The Sparks Ginning Co. will rebuild its gin, which was recently destroyed by fire.

ANDERSON, FLA.—The Sale, Davis Co. will erect an ice factory. T. D. Sale is a member of the firm.

LAKE HELEN, FLA.—E. W. Bond Co.'s crate mill was destroyed by fire. Loss, $50,000.

JOHNSON CITY, TENN.—Biddle & Ellsworth, Ltd., may rebuild their milling plant, recently destroyed by fire, next spring.

KNOXVILLE, TENN.—The East Tennessee Brewing Co. will install new machinery in its ice plant.

EVA, TENN.—A. W. Lucas & Co., of Waverly, Tenn., contemplate establishing a cotton gin.

OWENSBORO, KY.—F. N. & W. Smith are having plans made for an ice and cold storage plant, 100 × 148 ft., at Locust St. Cost, $40,000.

LEXINGTON, KY.—The Indiana Bent Rung & Ladder Co., of Indiana, Pa., contemplates locating a $50,000 branch here. J. W. Porter, of the Chamber of Commerce, can give information.

SMITHLAND, KY.—J. L. Abell and others are organizing an $8,000 company to operate a canning factory with a capacity of 20,000 cans daily.

OWENSBORO, KY.—Miller Brick & Tile Co. has been organized with D. Stewart Miller, Jr., Gen. Mgr., to manufacture brick and tile. Plant will have a daily capacity of 60,000 bricks.

PERU, IND.—Crapsey & Lamm., Archs., Groton Bldg., Cincinnati, O., are preparing plans for one-story factory building, 180 × 300 ft., to be erected at Peru, for the Model Gas Engine Works, Auburn, Ind.

KIMMEL, IND.—The Art Portland Cement Co. has incorporated with $500,000 capital to erect a large plant in this place.

HARTFORD CITY, IND.—D. R. Morrison has organized a company to erect a plant to manufacture engines. Bids will be invited soon.

HAMMOND, IND.—The United States Steel Corporation has purchased 2,500,000 acres of land on shore of Lake Michigan, near this city, and the Illinois Steel Co. will build immense factories and blast furnaces and otherwise improve the tract.

GRAND RAPIDS, MICH.—The Furniture City Brewing Co. is receiving sketches from architects for a cold storage warehouse to be erected at Goodrich and Ionia Sts. Cost, $30,000.

JACKSON, MICH.—The Jackson Fence Co., capital $50,000, has been organized, and a new factory will be built at once. B. A. Garlinghouse is Gen. Mgr.

GALESBURG, ILL.—Gross Bros., Chambers and Mulberry Sts., will take figures in the spring for a four-story factory building, 66 × 116 ft. Cost, $18,000.

CHICAGO, ILL.—John Ahlsch[illegible] Arch., 70 La Salle St., is preparing p[illegible] for cold storage and warehouse building, [illegible] erected on Michigan Ave., for Chicago [illegible]torage Co. Cost, $100,000.

EAU CLAIRE, WIS.—The H[illegible] Laundry Co. will erect a two-story [illegible] building next spring.

MINNEAPOLIS, MINN.—The [illegible] Coupler Co., E. C. Washburn, M[illegible]burn ning the establishment of a s[illegible] plan- Third St. S. Cost, $200,000. [illegible] on

NEOSHO, MO.—The Mutual M[illegible] has had plans made for wagon fa[illegible] Briggs in Secy. [illegible] S.

AURORA, MO.—The Aurora [illegible] & Machine Works has closed a [illegible] the purchase of a site upon which [illegible] a modern plant.

KANSAS CITY, MO.—The K[illegible] bitulithic Paving Co. has secured perm[illegible] the erection of proposed paving plan[illegible] $12,000.

ST. LOUIS, MO.—L. W. Post, [illegible] Post Pipe Co., writes us that a site of [illegible] has been secured on which to erect [illegible] story. The plant will consist of a main [illegible] 3 stories, 80 × 252 ft., with an a[illegible] 100 ft., for engine, boilers and h[illegible] grinding machinery. About $110,00[illegible] be expended in the purchase of ground [illegible] in the construction and equipment of plant.

LITTLE ROCK, ARK.—J. E. R[illegible] of Geneva, Ill., contemplates erecting [illegible] box factory here. Secretary Board of Trade can inform.

PARIS, TEX.—A large wagon factory is to be established here by Henry Keller, of Sauk Point, Minn., to cost $100,000.

BEAUMONT, TEX.—David Harris and associates, of Palestine, contemplate erecting a saw mill here with a daily capacity of from 35,000 to 40,000 ft.

CLEBURNE, TEX.—Cleburne Ice & Cold Storage Co. will increase the capacity of its plant here to 45 tons. B. L. Higgins is Mgr.

COLORADO, TEX.—A 15-ton ice plant will be erected here. Secretary Progressive Club can give information.

TULSA, IND. T.—Geo. G. Bayne and Becks Erick will erect a brick plant here, at a cost of $200,000.

HENRYETTA, IND. T.—J. P. McGinty contemplates locating an iron foundry here.

GUTHRIE, OKLA.—The Southwestern Iron Co., recently incorporated, absorbing the Oklahoma Iron Works and to manufacture structural iron, windmills, pumps, etc., will also operate foundry and machine shop, and will erect buildings, 60 × 80 ft. and 60 × 90 ft., and office building, 20 × 40 ft., will also be built. About $20,000 will be invested. D. W. F. Turbyfill, Arch., Oklahoma City.

MISCELLANEOUS CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

FIRE ENGINE.—Superior, Wis.—Bids are asked by J. A. Hobe, Cy. Clk., until Dec. 15, for one first size steam fire engine.

FIRE ALARM SYSTEM.—Seymour, Ind.—Bids are reported asked until Dec. 15 by J. W. Morton, Chn. Com., for a fire alarm system.

WHARF.—Fort Monroe, Va.—Bids are asked by Capt. E. Eveleth Winslow, U. S. Engrs., Norfolk, Va., until noon, Dec. 29, for constructing a wharf at Fort Monroe.

TUNNEL.—St. Paul, Minn.—City and Twin City Rapid Transit Co. are said to be planning the tunneling of Selby Ave., to avoid a 25% grade. Work would cost about $250,000.

DREDGE.—Chicago, Ill.—Bids are asked by Lincoln Park Commissioners, Francis T. Simmons, Pres., until 3 p. m., Dec. 2, for complete construction of a sea-going dredge.

RIPRAP STONE.—Washington, D. C.—Bids are asked until 10 a. m., Dec. 4, for furnishing and delivering riprap stone at Carter's Creek, Va. Lt. Col. R. L. Hoxie, U. S. Engrs.

BOAT REPAIRS.—New York, N. Y.—Bids were asked by Maurice Featherson, Comr. Docks, until 2 p. m., Dec. 8, for labor and materials required for repairs to municipal ferry boats.

DITCH WORK.—Alexandria, Minn.—Bids are asked by E. P. Wright, County Audr., until 3 p. m., Dec. 12, for construction of Ditch No. 8, aggregating 55,417 cu. yds. Est. cost is $6,531.

WIRE FENCE.—Fort Myer, Va.—Bids are asked until 2 p. m., Dec. 4, by Capt. A. W. Butt, Q. M., U. S. A., Washington, D. C., for constructing a wire fence at signal corps post, Fort Myer, Va.

DITCH WORK.—Glencoe, Minn.—Bids are asked by F. D. Stocking, County Audr., until 1 p. m., Jan. 12 (readvertisement), for constructing Ditch No. 13, aggregating 52,421 cu. yds. Est. cost is $4,718.

FIRE HOSE.—New York, N. Y.—Bids are asked by Nicholas J. Hayes, Fire Comr., 157 East 67th St., until 10.30 a. m., Dec. 5, for furnishing and delivering about 16,000 ft. of 2½-in. double jacket fire hose.

EXCAVATION.—Council Bluffs, Ia.—Bids are asked until noon, Dec. 4, for the excavation of Indian Creek from 16th Ave. to 8th St., requiring removal of about 100,000 cu. yds. L. Zurmuehlen, Jr., Cy. Clk.

GOLD MINE.—California.—H. Leedom & Co., 21 South 12th St., Philadelphia, Pa., are desirous of securing information pertaining to a gold mine located in Eldorado County, California, and would like to get in touch with a mining engineer.

WHARF, HOSPITAL, ETC.—Pensacola, Fla.—Following bids were opened Nov. 27 at the office of James Knox Taylor, Supervising Arch., Washington, D. C., for constructing hospital, wharf, etc., at the Santa Rosa Quarantine Station, Pensacola, Fla.: F. M. Daniel, $15,900, time 8 months; C. H. Turner, $10,275, 60 days; James Simms, $16,758, 10 months; Henry Monk, $13,750, 6 months; all of Pensacola.

IRON FE —New York, N. Y.—Bids are asked b n T. Oakley, Comr. Water Supply, Gas Electricity, until 2 p. m., Dec. 13, for shing and erecting wrought iron fence, gates, at Mt. Prospect Reservoir, B yn. Cost is between $6,000 and $8,000.

DREDGIN FILLING.—Oakland, Cal.—Board Publ Works has requested F. C. Turner, Cy gr., to prepare plans and specification the dredging of Lake Merritt to a u depth of 5 ft. The City Engineer h also been asked to prepare plans for th ing in of the park site on the south side e 12th St. dam.

CONCRET DRAINAGE CANALS.—New Orleans, L Following bid was opened Nov. 25 b Bureau of Yards and Docks, Navy Depa nt, Washington, D. C., for concrete dr ge canals, curbing and sidewalks, nav tation, New Orleans: W. H. Douglas, 71 ydras St., New Orleans, La., Item 1, $24 , Item 3, $9 per lin. ft.

FERRY USE.—New York, N. Y.—Bids are asked Maurice Featherson, Comr. Docks, Pie Battery Pl., until 2 p. m., Dec. 5, for urnishing labor and materials required for preparing for and building at the foot of Whitehall St., East River, a new ferry hous and structures appurtenant thereto, in connection with the new Whitehall ferry terminal.

WALL.—New York, N. Y.—Bids are asked by William McAdoo, Police Comr., 300 Mulberry St., until 10 a. m., Dec. 4, for furnishing all the labor and furnishing and erecting all the materials necessary in making and completing filling, concreting, fence wall, fence, etc., in new station house, prison and stable for the 41st Precinct, situated on the easterly side of Webster Ave., in Mosholu Parkway, Borough of the Bronx.

MACHINE, PIPE, ETC.—Washington, D. C.—Bids are asked by Bureau Supplies and Accounts, Navy Department, until 10 a. m., Dec. 26, for furnishing a quantity of naval supplies, among which are the following: Schedule 253, wood boring machine, tool steel, asphalted felt, asphaltic cement; schedule 254, searchlight; schedule 255, carborundum wheels, bolts, nuts, rivets, lead pipe, motor, etc. H. T. B. Harris, Paym. Gen., U. S. N.

PORTLAND CEMENT.—Nebraska.—The Secretary of the Interior has awarded contract for 10,000 bbls. of Portland cement to be used on the first 45 miles of the Interstate Canal, North Platte Project, Nebraska, to the PORTLAND CEMENT CO., Denver, Colo., at $1.59 per bbl. delivered f. o. b. on cars Denver, Colo. In case this company does not qualify, it is recommended that contract be awarded to the Illinois Steel Co., of Chicago, Ill., the next lowest bidder.

MACHINE TOOLS, ETC.—Washington, D. C.—Bids are asked by Bureau Supplies and Accounts, Navy Department, until 10 a. m., Dec. 26, for furnishing a quantity of machine tools, etc., as follows: Schedule 256, exhaust fans; schedule 257, screw machine, planer, cutting-off machine, engine lathe, steam hammer, portable boring bar, band saw; schedule 258, metal-sawing machine, windlasses; schedule 259, air drills, converting traveling crane. H. T. B. Harris, Paym. Gen., U. S. N.

DREDGING, ETC.—Oyster Bay, N. Y.—Bids were opened Nov. 1 for 37,000 cu. yds. dredging and filling lowlands at Oyster Bay, E. A. Berry, 2030 8th St., Rensselaer, N. Y., at 39 cts. per yd., being lowest bidder. As first proposed the channel was to be 40 ft. wide at bottom, but owing to impossibility of getting satisfactory bids, matter is now under advisement to make it 75 ft. wide. This would require 70,000 yds. dredging and filling. H. S. Thomson, 82 Liberty St., New York, is Engr.

ENGINE, MACHINERY, ETC.—Washington, D. C.—Bids were opened Nov. 24 at the Isthmian Canal Commission for a large quantity of machinery, engines, and various supplies. The bids of especial interest to engineers are as follows: Class 29. Horizontal center crank engine, 100 HP., for planing mill: Holiday Machinery Co., Seattle, Wash., $838; Clark Engine & Boiler Co., Kalamazoo, Mich., 125 HP., $725, 110 HP., $780; Handlan Buck Machinery Co., St. Louis, $790; Manning, Maxwell, Moore, New York, $1,451; Ridgeway Dynamo & Engine Co., New York, $1,576; Motley, Green & Co., New York, $913; A. D. Granger Co., New York, $988, $1,285; Wanham & Magor, New York, $1,798. Class 2. One car sill and timber dressing machine: Handlan Buck Manufacturing Co., St. Louis, $1,725; Manning, Maxwell, Moore, New York, $1,764; Motley, Green & Co., New York, (a) $1,800, (b) $2,125. Class 5. Two sets power plate bending rolls: Prentiss Tool & Supply Co., New York, $1,820; Holiday Machinery Co., Seattle, Wash., $2,700; Handlan Buck Manufacturing Co., $3,700; Manning, Maxwell, Moore, $3,118; Motley, Green & Co., $4,210; Cleveland Punch & Shears Co., Cleveland, O., (a) $2,930, (b) $4,734; Niles-Bement-Pond Co., New York, $4,300; Royce & Ricketts, Washington, (a) $2,580, (b) $4,780, (c) $3,890. Class 6. Two power double punch and shears: Prentiss Tool & Supply Co., $1,800; Holiday Machinery Co., $1,890; Handlan Buck Manufacturing Co., $1,600; Manning, Maxwell, Moore, $2,238; Cleveland Punch & Shears Co., $2,526; Niles-Bement-Pond, $1,932; Royce & Ricketts, $1,700.

MEXICO.

The names of parties awarded contracts are printed in capital letters.

RAILWAY.—Jalisco.—Manuel Ruiz, City of La Barca, has applied for a state concession to construct a railway from La Barca to Tarengo, a distance of about 16 kilometers.

SEWERAGE.—Puebla.—It is reported that the English firm of PEARSON & SONS will construct the sewerage for the city of Puebla, at a cost of $2,300,000.

ELECTRIC LIGHT PLANT.—Santa Eulalia, Chihuahua.—Ezequiel Salazar, of the city of Chihuahua, has applied for a concession to establish an electric plant in the Santa Eulalia mining camp for lighting the city of Chihuahua.

READERS' WANTS Our readers, and others, who are in the market for supplies, machinery, etc., or to award contracts for work, will nearly always find the names of the firms who handle the material they want by referring to our advertising pages. Our advertisers are constantly changing their cards, and for this reason we advise our readers to look over the paper from the front cover to the back cover so as to keep in touch with up-to-date contractors' material, methods, etc. **Mention Engineering News** when writing our advertisers. If, however, you do not find advertised just what you want please write us at once and we will notify the proper firms without delay, and **without charge.—Engineering News can help buyers.**

STEAM SHOVELS.—New York, N Y. — Wm. F. Figee, 68 West 68th St., New York, we are informed, is in the market for a steam shovel.

STREET LIGHTING LAMPS.—Bolivia.—Natalio Fernandez V., Cochabamba, Bolivia, is reported as in the market for lamps for city lighting.

GARBAGE CREMATORY, ETC.—Lexington, Ky.—Thos. L. Combs, Mayor, writes us that this city is in the market for a garbage crematory, etc.

AIR COMPRESSOR.—Valdosta, Ga.—A W. Vernedoe, Cy. Clk., is receiving prices for furnishing a duplex air compressor of about 1,000 cu. yds. capacity.

RAILWAY SUPPLIES.—Uruguay.—El Gesente del Ferrecarril Central, of Montevideo, is reported as wanting catalogues from manufacturers of railway supplies.

CONCRETE APPLIANCES.—White Plains, N. Y.—Cantlin Bros., 133 Railroad Ave., Room 402, write us that they are in the market for concrete appliances.

REFRIGERATING MACHINERY.—Plainfield, N. J.—Marchant Bros., North Ave., Plainfield, we are informed, are in the market for refrigerating machinery, etc.

WOODWORKING MACHINERY, ETC.—Bolivia.—Juan Velverde V., of Uyuin, Bolivia, is reported as wishing to receive catalogues from firms making woodworking machinery.

STREET SWEEPERS AND DUST CANS.—Salisbury, N. C.—C. M. Miller, Cy. Engr., writes us that the city is in the market for a horse street sweeper and two dozen dust cans.

SAWMILL MACHINERY, BOILERS, ETC.—Dominican Republic, Cen. Am.—Estrella Hermanos, of San Jose de la Matas, D. R., is reported as in the market for the above mentioned supplies.

MACHINERY FOR MAKING CONCRETE PIPE.—New York, N. Y.—W. M. Davidge & Co., 19 Liberty St., New York, write us for the addresses of manufacturers of the above machinery.

MINING MACHINERY.—Peru.—Cristobal Russine, Juan Orlandino and N. Palma, of Puerto de Etan, Peru, are reported as in the market for various lines of mining machinery, etc., as they are interested in a new gold mine.

STREET SWEEPING MACHINE.—Jamesville, Wis.—C. V. Kerch, Cy. Engr., writer us that the Highway Comn. of the city council, has been instructed to investigate the matter of street sweeper, and catalogues, etc., are wanted.

CONCRETE BLOCK MAKING MACHINERY.—Wyoming, Cincinnati, O.—Willis G. Waldo, of Wyoming, Post-Office Station, Cincinnati, O., writes us that he is in the market for concrete block machinery, as he wishes to take up the business of making rock blocks. General information regarding the business is wanted.

BOILERS AND ENGINES.—The Gibbes Machinery Co., Columbia, S. C., D. W. Johnson, of Passover, Ga., the Southwestern Iron Co., of Guthrie, Okla., the Board of Public Works, of Bamberg, S. C., the Am. Gypsum Co., Port Clinton, Ohio, and V. R. Hicks, of Blue Ridge, Ga., are reported in the market for steam and gasoline engines, etc.

MECHANICAL SUPPLIES, MACHINERY, ETC.—Honduras, Cen. Am.—Cornilis Midencl. de Calle Morazan, No. 11 Cholutaca, Honduras, is reported as in the market for the above-mentioned supplies.

CAMERAS, PHOTOGRAPHIC SUPPLIES, ETC.—Argentina.—El Secretario de la Sociedad Fotografica de Aficionados of Parana, Entre Rios, Argentina, is reported as wanting catalogues from makers of the above.

MILL EQUIPMENT CONVEYORS, ETC.—Port Clinton, Ohio.—E. L. Devore, Mgr. Am. Gypsum Co., is reported as in the market for complete mill, foundry and mine equipment, etc., as well as calcining mill machinery, etc.

MINING MACHINERY, ETC.—Argentina.—The Argentina Terra del Fuego Mining Co., Recomendado al Banco de Italia, Buenos Aires, is in the market for machinery for its new mine, estimated to cost about $1,000,000, according to reports.

BUILDING MATERIALS, ETC.—It is stated that building materials, etc., are wanted by L. A. Galyon, of Knoxville, Tenn., the Security Bldg., Co., of Galveston, Tex., G. W. Milligan, of Norman Park, Ga., I. W. Kirkbride, of Bluefield, W. Va.

WATER-WORKS SUPPLIES.—Moorestown, N. J.—Geo. M. Wells, of Moorestown, Burlington Co., N. J., writes us that Jacob Allen, of Gibbstown, N. J., is interested in a proposed water supply and wishes to hear from contractors who will install such a plant, and from manufacturers of supplies.

ELEVATORS.—Newport News, Va. — The Va. Guaranty & Trust Co., W. B. Hoover, Vice-Pres., 2700 Washington St., is reported in the market for a two-ton electric elevator. The Fayetteville Ice & Mfg. Co., of Fayetteville, N. C., and Sanders & Lemacks, of Ritter, S. C., are also in the market for freight elevators.

MACHINERY FOR MAKING ARTIFICIAL STONE.—Bolivia, So. Am.—Don Manuel Maria Quaroga G y Calle, Santo Domingo, No. 96, Cockabamba, are understood to be in the market for machinery for making artificial stone and strengthening sun-dried bricks. It is stated that Esteban Godoi, of Calle Anibal Pinto, No 43, Iquique, Senti, is also in the market.

ELECTRICAL SUPPLIES.—It is reported that electrical supplies and machinery are wanted by Capt. B. B. Buck, C. Q. M., Fort McPherson, Ga.; the Miss. Ice Co., of Clarksdale, Miss.; the Mechanical Loading and Trimming Co., P. O. Box 913, Norfolk, Va.; the Am. Gypsum Co., Pt. Clinton, O.; R. M. Adams, of Ozark, Ark.; M. G. Stackhouse, of Gravette, Ark.; R. W. Moore, Mayor, Sparta, Ga.; and Board of Public Works, of Bamberg, S. C.

ELECTRIC MOTORS.—R. J. Arey, Res. Engr., A., T. & S. Fe R. R., Williams, Ariz., writes us that he desires some information in regard to electric motors, and would like catalogue of some reliable firm showing electric drays and the cost of same; also showing the tonnage that they will haul on grades ranging from 1% to 10%. Mr. Arey has a proposition of hauling coal six miles, the plant requiring 10 or 12 tons per day. The work of hauling is now being done by six mules and he thinks that expense can be reduced if the electric dray can be used.

DAM.—San Juan de los Lagos, Jal.—Enrique Zepeda, Director Politico of San Juan de los Lagos, has decided to construct a dam near that city, to store water for the supply of the city.

DAM.—Los Herreros, Nuevo Leon.—Joaquin Marti, of Los Herreros, Nuevo Leon, contemplates the construction of a large dam to store water from the El Colorado and Andada de los Huisaches Rivers for irrigation.

HYDRO-ELECTRIC PLANT. — Jalisco. — Felix Araiza, city of Guadalajara, has applied for a concession to utilize 2,000 liters of water per second from the Bolaños River for motive power, which he proposes to transmit to supply the various agricultural, mining and other industries in that section.

RAILWAY.—Toluca.—Telesforo Garcia, city of Mexico, has been granted a concession by the state government of Mexico to construct a railway from the city of Toluca to the valle de Bravo District, state of Michoacan passing through Ville Victoria, with branches to Floro de Hidalgo, Ixtlahuacae and Del Rio.

CEMENT PLANT.—Gomez Palacio, Durango.—The Hidalgo Cement Co. has been organized here for the purpose of establishing a cement plant at Hidalgo, near this place. The plant will have a capacity of 1,000 bbls. a day. Juan Brittingham, a wealthy manufacturer of this place, is interested in the project.

SMELTER.—Jiminez, Chih.—A concession to establish a smelter in Jiminez was lately granted to Mr. John F. Johnson, and a company to undertake the enterprise has been organized in Parral, with a capitalization of $1,500,000. The members of the company are Messrs. Johnson, Ivonsky, Felipe Ortiz, Flyn and Lic. Joaquin Cortazar, Jr. The company may be addressed at Jiminez, Chih.

WATER AND SEWERAGE.—Parral, Chih.—It has been definitely decided to construct a sewerage system and water-works in the city of Parral. The plans for the works have been prepared by Nelson Rhodes, Jr., city of Chihuahua. The estimated cost of the works is $350,000. The governor of the state, Enrique Creel, city of Chihuahua, will award the contracts for construction, which he hopes to let within 60 days, so as to commence work in January.

DAM AND IRRIGATION.—San Pedro, Sonora.—Carlos Garza Cortina, City of Mexico, representing La Paz Agricultural Co., has petitioned the Department of Fomento for a concession for the company, permitting the diversion of 4,000 liters of water per second, from the Mayo River, State of Sonora, for irrigation. It is proposed to erect a dam at Cumbroche, near the town of San Pedro.

ELECTRIC PLANT.—Zacatecas.—It is announced that the Compania Electrica de Zacatecas, which was organized for the purpose of installing an electric light and power plant in the city of Zacatecas, has awarded the contract for the entire installation to the SCHONNDUBE & NEUGEBAUER CO., City of Mexico. The electrical machinery and equipment will be manufactured by the Allgemeine Electrical Co., of Berlin, Germany. The plant will be equipped with gas engines of about 200 HP. each, to be built by the Koerting Works of Hanover. The powerhouse will be located about a mile from the center of the city.

SUGAR REFINERY.—Santa Lucrecia, Vera Cruz.—Alonza Mariscal y Pina, the representative of the Tabasco Land & Development Co., has applied to the Department of Fomento for a concession for the establishment of a sugar refinery in the canton of Minatitlan, Vera Cruz, near the town of Santa Lucrecia. In addition to the refinery the company contemplates the erection of sugar mills, on a more extensive scale than heretofore established in Mexico, the investment, in mills alone, being estimated at $1,500,000, gold, the initial capacity of the mill to be 1,000 tons a day, to be increased, eventually, to 3,000 tons. The company will also construct wagon roads, railways, telegraph and telephone lines.

POWER PLANT.—Monterey, N. L.—A. W. Lilliendhal, of Monterey, contemplates the erection of an extensive hydro-electric power plant, to furnish power for manufacturing and all other purposes in the city of Monterey. The concession for the erection of the plant has been granted. The plan contemplates the erection of a power-house of stone, 100 × 150 ft. It is proposed to carry a steel conduit, 5 ft. in diameter, from the head of the Pilon River, in the mountains near the city. This conduit will be laid, horizontally to the point where the power-house will be erected, supported by heavy steel posts, and will then drop through a vertical steel pipe to the turbines. A fall of several hundred feet can be obtained. Engineers are now at work perfecting the plans.

CONTRACT PRICES.

(Where (*) precedes items under Contract Prices the work was advertised in Engineering News.)

HIGH PRESSURE MAINS.—New York, N. Y.—Following bids were received Nov. 22 by John T. Oakley, Comr. Water Supply, Gas and Electricity, for furnishing, delivering and laying high pressure fire service mains and appurtenances: (1) Lynch Contracting Co., West 26th St., New York; (2) Frank Bradley, 86th St. and Broadway, New York:

	(1)	(2)
30,700 tons straight cast-iron pipe	$40.00	$38.00
295 tons cast-iron special, Class A	120.00	130.00
1,025 tons cast-iron special, Class B	110.00	120.00
1,395 tons cast-iron special, Class C	100.00	95.00
30 tons cast-steel special, Class A	250.00	250.00
275 tons cast-steel special, Class B	250.00	250.00
600 cast-iron castings	50.00	60.00
35,300 lin. ft. 24-in. pipe	1.40	1.35
30,600 lin. ft. 20-in. pipe	1.30	1.25
47,100 lin. ft. 16-in. pipe	1.25	1.20
156,500 lin. ft. 12-in. pipe	1.15	1.10
25,800 lin. ft. 8-in. pipe	1.05	1.00
950 lin. ft. 6-in. blowoff pipe	.50	.60
300 lin. ft. 36-in. low pressure water pipe	1.50	1.45
300 lin. ft. 30-in. low pressure water pipe	1.50	1.35
300 lin. ft. 24-in. low pressure water pipe	1.30	1.25
300 lin. ft. 20-in. low pressure water pipe	1.20	1.15
300 lin. ft. 16-in. low pressure water pipe	1.15	1.10
2,000 lin. ft. 12-in. low pressure water pipe	1.10	1.00
300 lin. ft. 8-in. low pressure water pipe	1.00	.80
1,100 lin. ft. 6-in. low pressure water pipe	.75	.60
165,000 lbs. of wrought iron	.05	.06
503,000 lbs. of rolled steel	.05	.05
205 20-in. gate valves	230.00	270.00
162 16-in. gate valves	175.00	200.00
610 12-in. gate valves	100.00	120.00
1,205 8-in. gate valves	50.00	60.00
48 6-in. gate valves	35.00	35.00
196 20-in. gate valves	20.00	25.00
151 16-in. gate valves	20.00	20.00
587 12-in. gate valves	10.00	15.00
1,2[illegible] 8-in. gate valves	10.00	8.00
44 6-in. gate valves	10.00	7.00
1,272 4-nozzle post hydrants inc. l. l. waste pipe	22.00	16.00
424,800 cu. yds of earth excavation and backfilling	1.80	1.65
700 cu. yds. of rock excavation and backfilling	4.50	5.00
30 cu. yds. of rock excavation without blasting	4.50	15.00
11,200 cu. yds. of masonry excavation	3.00	5.00
600 cu. yds. of brick masonry	18.00	15.00
30 cu. yds. of rubble masonry	7.00	6.00
4,700 cu. yds. of concrete masonry	8.00	7.50
200 cu. yds. of concrete masonry	8.00	8.00
9,550 sq. yds. of asphalt pavement, including concrete base	4.00	4.50
58,650 sq. yds. asphalt pavement, inc. stone block base	4.00	3.75
55,550 sq. yds. granite block pavement, inc. concrete base	2.50	3.00
54,000 sq. yds. stone blk pavement, inc. sand base	2.00	1.50
3,695 sq. yds. wooden block pavement, including concrete foundation	4.00	4.50
695 sq. yds. of bluestone flagging	2.00	2.70
300 sq. yds. of bluestone flagging, inc. foundations	.50	1.50
75 sq. yds. of granolithic sidewalk pavement	2.50	2.00
4,500 lin. ft. stone curbing, inc. foundations	.15	.20
1,600 lin. ft. of granolithic, inc. foundations	.40	.50
15,000 ft. B. M. of lumber	60.00	50.00
75 ½-in. corporation cocks	4.50	3.00
30 lin. ft. 24-in. pipe	2.00	8.00
120 lin. ft. 20-in. pipe	2.00	7.50
140 lin. ft. 16-in. pipe	2.00	7.00
700 lin. ft. 12-in. pipe	1.50	6.00
810 sq. yds. 3-ply felt waterproofing	1.00	1.25
10,700 lin. ft. 6-in. vitrified tile drain pipe	.40	.50
Totals	$3,700,443	$3,571,365

*DREDGING.—New York, N. Y.—Following bids were opened Nov. 22 by Col. W. R. Livermore, U. S. Engrs., for dredging: Shoal Harbor and Compton Creek, Ambrose C. Driscoll, 500 West Genesee St., Syracuse, N. Y., 78 cts.; Keyport Harbor, Atlantic Dredging Co., 15 Whitehall St., New York, 29 cts.; South River, Ambrose C. Driscoll, 300 West Genesee St., Syracuse, N. Y., 42 cts.; Woodbridge Creek, J. Marvin Briggs, 17 Battery Pl., New York, 48 cts.

DREDGING.—New York, N. Y.—Following bids were opened Nov. 27 by Col. W. R. Livermore, U. S. Engrs., for about 40,000 cu. yds. to 60,000 cu. yds. dredging in Tarrytown Harbor, N. Y.: International Contracting Co., 17 Battery Pl., New York, 15 (informal) and 20 cts.; Columbia Dredging Co., 64 Broad St., New York, 15 7-10 cts.; The W. H. Beard Dredging Co., 21 State St., New York, 21½ cts.

INDUSTRIAL NOTES.

THE BEVIER IMPROVED WOOD PAVEMENT CO., 220 Broadway, New York, has been formed to manufacture wood paving block. The company claims for its product its absorption under the most severe tests will not exceed 2%.

BURNS & McDONNELL, Kansas City, Mo., Civil, Hydraulic and Sanitary Engineers, have removed their offices into larger quarters, at 709 and 710 Dwight Building, where they will continue their practice as specialists on municipal, sanitary and hydraulic engineering.

THE S. MORGAN SMITH CO., of York, Pa., has recently completed the installation of six turbine water wheels for the Berkshire Power Co., at Canaan, Conn. Each turbine is to develop 120 HP. under 11 ft. head. These turbines are installed in sets of three, each three turbines being geared to a jack shaft which is coupled directly to an electrical generator. The electricity generated is to be used for lighting and power purposes. The Smith company has also recently furnished two horizontal water wheels to the Lombard Governor Co., at Ashland, Mass. These wheels are to be used for supplying power to their factory, and also be used in connection with testing water wheel governors, the manufacture of which is the principal business of this company.

THE RAIL JOINT CO. is the corporate name of the company recently organized under the laws of the State of New York, and has acquired the business and property of the Continuous Rail Joint Co. of America, the Weber Railway Mfg. Co. and the Independent Railroad Supply Co., and will carry on the business of the three companies substantially as it has been conducted in the past. The Board of Directors are: President, Frederick T. Fearey; Chairman of Executive Committee, George G. Frelinghuysen; Vice-Presidents, L. F. Braine and Percy Holbrook; Treasurer, F. C. Runyon; Secretary, Banjamin Wolhaupter. Mr. Fearey has been Treasurer and Managing Director of the Continuous Rail Joint Co. of America since that company was organized, and always active in its management. Mr. Frelinghuysen has been counsel of the Continuous Rail Joint Co. of American since its organization, and recently President of the company. Mr. Braine has been General Manager of the Continuous Rail Joint Co. of America for the past ten years, to which business he has given his entire time. Mr. Holbrook has been for the past ten years connected with the Weber Railway Joint Mfg. Co., and for the past six years as General Manager of that company. Mr. Runyon has been acting Treasurer and Auditor of the Continuous Rail Joint Co. of America, and will continue in the like position with the new company. Mr. Wolhaupter has been long connected with the Independent Railroad Supply Co., being the inventor of the Wolhaupter rail joint. On and after Dec. 1st the offices in New York, Empire Building, and Newark, Century Building, will be consolidated with headquarters in the new office building, 29 West 34th St., New York.

TRADE PUBLICATIONS.

STEAM TURBINES.—General Electric Co., Schenectady, N. Y. Paper; 8 × 10½ ins.; pp. 30; illustrated.

An album of Curtis turbine installations.

AIR BRAKE EQIPMENTS.—National Electric Co., Milwaukee, Wis. Paper; 7 x 10 ins; pp. 12; illustrated.

Christensen straight-air and automatic brake apparatus is described in brief style.

PEAT FUEL MANUFACTURE.—T. H. Leavitt, Boston, Mass. Paper; 8½ × 11 ins.; pp. 8; illustrated.

Reprint of a paper by J. M. Cheney describing a Florida peat-fuel plant using Leavitt machinery.

DRYING MACHINERY AND PRESSES.—Biles Drier Co., Louisville, Ky. Paper; 6¼ × 3½ ins.; pp. 8; illustrated.

Steam driers and conduit system direct-heat rotary driers are shown; also metal filter-press plates and the Biles filter press and automatic roller press.

TOOLS FOR CONCRETE SIDEWALKS.—Anderson & Sons Co., 21 to 31 St. Aubin Ave., Detroit, Mich. Paper; 4¾ × 6½ ins.; pp. 28; illustrated.

This is an illustrated catalogue and price list of tools and stamps for surfacing and finishing pavements of this kind; also picks, shovels, screens, barrows, concrete mixers, and other tools and appliances.

STEEL WHEELBARROWS, ORE CARS, CHARGING BARROWS, ETC.—Archer Iron Works, 34th Place and Western Ave., Chicago. Paper; 6 × 8¾ ins.; pp. 24; illustrated.

A number of ordinary and special barrows are shown; also trucks, small dump and platform cars, factory and lumber yard trucks, and coal and coke charging wagons. Dimensions, weights and prices are given.

CONCRETE MIXER AND SAND-LIME BRICK MACHINE.—Concrete Machinery Co., Majestic Building, Detroit, Mich. Paper; 4¾ × 8¼ ins.; pp. 6; illustrated.

The concrete mixer is a rotary horizontal taper cylinder 12 ft. long, within which revolves a shaft fitted with paddles. In the machine for making sand-lime bricks and blocks, the mixture is tamped by impact, the hammer holding the die-punches dropping from a height and falling into the die box.

RAIL WRENCH, CHISELS AND TOOLS.—W. H. Anderson & Sons, 21 to 31 St. Aubin Ave., Detroit, Mich. Paper; two pamphlets; 4¾ × 6½ ins.; pp. 12 and 40; illustrated.

The smaller pamphlet describes a railway track wrench in which a socket bar fits over the nut and is revolved by a hand wheel. The other pamphlet is an illustrated catalogue and price list of chisels and various other hand tools.

DYNAMOS AND MOTORS.—Crocker-Wheeler Co., Ampere, N. J. Paper; 7⅛ × 10 ins.; serial.

In a 12-p. pamphlet, just issued, direct-current dynamos and motors of Type D, the most recent Crocker-Wheeler design in this class of machines, are described. The range of sizes is 10 to 275 HP. for motors, and 9 to 225 KW. for dynamos. Among the noteworthy features of the design is that spherical bearings are abandoned in favor of the fixed form, as the latter gives more rigid support to the shaft.

EXPANSION BOLTS AND SHIELDS.—W. H. Anderson & Sons, Detroit, Mich. Paper; 6 × 12½ ins.; pp. 4; illustrated.

The bolt, insulator pin or other threaded attachment is screwed into a split sleeve, expanding it so that the diamond points on the outside of the shield engage with the roughened surface of the hole. The device can be used with gimlet-pointed lag screws or wood screws and is adaptable to a variety of purposes. There is also the Omega toggle for attaching fixtures to hollow brick tile, fireproofing, etc. Dimensions and prices are given.

AIR LIFT.—Harris Air Pump Co., 1101 East 23d St., Indianapolis, Ind. Paper; 9⅛ × 6¼ ins.; pp. 32; illustrated.

The Harris air-lift system is claimed to have the special advantage of being equally adaptable for both shallow and deep wells, while it will force the water to a higher level with less submersion and less volume and pressure of air than other similar devices. A number of testimonials are given and views of plants using this system, including that of the Indianapolis Water Co., which will have 30 Harris air lifts. The device is also shown in use in the Texas oil fields.

MOTOR-DRIVEN AIR COMPRESSORS.—National Electric Co., Milwaukee, Wis. Paper; 7 × 10 ins.; serial.

In Bulletin No. 363 are shown several forms of self-contained motor-driven air compressor sets, including the ordinary form as supplied for air-braked electric cars, a water-jacketed form, and a portable set, comprising a compressor and air-tanks mounted on a small shop truck. The last-named form is recommended for small pneumatic-tool installations. In all sets the compressors are duplex, and their crank-shaft is driven by herring-bone gearing from the motor shaft.

GAS AND GASOLINE ENGINES.—Foos Gas Engine Co., Springfield, O. Paper; 10½ × 8 ins.; pp. 39; illustrated.

These are all horizontal engines on the four-cycle system, of various sizes, and for stationary or portable work. Besides the general description, the several parts are illustrated and described individually. Several views of the company's shops are also given. Separate circulars contain testimonials and describe the efficiency of the counterbalancing; the machine is shown running at full speed, while resting simply upon a pair of steel rollers.

COMPOUND LOCOMOTIVES.—American Locomotive Co., 111 Broadway, New York, N. Y. Paper; 9 × 6 ins.; pp. 36; illustrated.

This description of the Cole four-cylinder compound locomotive represents a piece of catalogue-making of first rank. The pamphlet is, of course, not a catalogue in the ordinary sense, since locomotives are not built as stock machines; but the construction, the service features, and the range of applicability of the Cole arrangement are fully, yet concisely, described by text photographs and drawings. The latter in particular are of unusual excellence.

BULLDOZERS AND FORGING, PUNCHING, SHEARING AND HYDRAULIC MACHINERY.—Williams, White & Co., Moline, Ill. Paper; 6¾ × 9¼ ins.; pp. 171; illustrated.

One of the most useful and labor-saving machines in forge work is the bulldozer, in which the heated bar or plate is pressed to shape between dies operated by arms on a heavy shaft. It is used in locomotive and car shops and in all kinds of machine works, each shop usually devising numerous dies for its own particular work. Machines for light and heavy work are shown, with numerous examples of their product. Another metal-working machine is the Yeakley hammer, in which the hammer is a plunger fitting a vertical chamber, being drawn up a vacuum and driven down by air pressure. Rolling machines for tapering and rolling special shapes are shown, and about 60 pages are devoted to punching and shearing machines of different classes, mainly for heavy work. Other machines noted are riveting, welding and drop hammers, upsetting and forging machines, multiple drills, etc. The catalogue as a whole gives an excellent idea of modern metal-working machinery.

ELECTRIC INSTRUMENTS AND MACHINES.—Fort Wayne Electric Works, Ft. Wayne, Ind. Paper, 8 x 10½ ins. Serial.

A number of new serial bulletins, issued recently, contain up-to-date information about Fort Wayne electric products. Wattmeters (including prepayment instruments), transformers, induction motors, and arc-lighting equipment. A small (5 × 8 in.) pamphlet has also appeared recently, which discusses the question of prepayment wattmeters, giving the arguments for their use; a prepayment Wattmeter and a separate prepayment attachment are among the products of this company's work.

NATIONAL GARBAGE FUEL CO., 112 Clark St., Chicago. Paper; 10 x 6½ ins.; pp. 15; illustrated.

This pamphlet describes an entire process in which the garbage, after being disinfected and passed over a picking table (for the removal of cans, bottles, iron, etc.), is ground to pulp in a mill; this is then mixed with a binding medium and a proportion of crude oil, and then delivered to a briquetting machine, the product from which can be used as fuel. An analysis made at the Armour Institute of Technology shows the briquettes to contain about 92% of volatile combustible matter and 4% fixed carbon.

PUMPING MACHINERY.—The Hill Machine Co., Anderson, Ind. Paper; 6 × 9 ins.; pp. 60; illustrated.

Steam pumping engines and pumping heads for deep well work are shown, the pump rod being directly connected to the piston rod of the vertical steam cylinder or operated by a connecting rod from a crank shaft driven by belting or geared to an electric motor. Other forms of pumps are for house or farm supply, boiler feed and other purposes. There is also a ¾-HP. engine run by steam or compressed air, and suitable for driving farm machinery, printing presses, etc. Working barrels and other apparatus for deep well work are also included, and lists of dimensions and prices are given in all cases.

ELECTRICAL APPARATUS.—Westinghouse Electric & Mfg. Co., Pittsburg, Pa. Paper; 7 × 10 ins.; serial.

Recent issues of Westinghouse serial bulletins include an excellent, complete, description of the "catenary" form of high-voltage trolley line construction developed by the company's engineers; a catalogue of a new line of portable measuring instruments, including round-dial voltmeters, ammeters and power-factor meters and series transformers for use with such instruments; also bulletins on arc-lamps, elevator controllers, alternators, a new 200-HP. direct-current railway motor, and other subjects.

A special (non-serial) publication meriting notice is a monograph on Rotary Converters, which seems to have general interest although written with reference primarily to Westinghouse machines. Another booklet of interest is entitled "Westinghouse Railway Apparatus," and forms a descriptive album of standard and multiple-unit railway equipment.

PORTABLE SUBSTATIONS.—General Electric Co., Schenectady, N. Y. Paper; 8 × 10½ ins.; serial.

The requirements of modern suburban electric railroading are such as to promise remarkably wide use of portable substations in the future. Many systems are so arranged that very lightly loaded sections may at times have heavy concentrated loads. Instead of designing all substations for their maximum loads, a single portable substation, comprising transformer, converter, switchboard, and connections, mounted in a box-car, may be used to help out the section of momentary heavy load. Such a substation can quickly be run to any point on the line, and is easily connected into circuit. Several such stations have been built by the General Electric Co., and their arrangements is described in Bulletin 4422 (8 pp.). A feature of the equipment is the use of a three-phase transformer instead of three single-phase machines for compactness.

Bulletin 4421 (16 pp.) describes the GE-80 direct current railway motor. The discussion is unusually full, and performance curves and speed tables are added.

For other Proposal Advertisements see pages 43, 44, 45, 46, 47, 48, of Advertisements and Construction News page 188.

OFFICE OF THE COMMISSIONERS, D. C., Washington, D. C., November 28, 1905.—Sealed proposals will be received at this office until twelve o'clock [illegible] Wednesday, December 20, 1905, to [illegible] construct a Public Convenience Station in [illegible] Reservation 7. Forms, specifications and necessary information may be obtained [illegible] this office. HENRY B. F. MACFARLAND, HENRY L. WEST, JOHN BIDDLE, Commissioners, D. C. 22-2t

SITUATIONS OPEN

AN ASSISTANT for a few weeks, on topographical survey; preferably a graduate engineer with some experience. Address "B. A. 22," Engineering News, New York. 22-1t

DRAFTSMEN.—We have positions now open for draftsmen. Call or address WESTERN ELECTRIC COMPANY, Chicago, Illinois. 22-16t

WANTED.—Two good draftsmen for bridge and structural iron work, with technical education and practical experience. Salary, $100.00 to $125.00 per month. Give full particulars. Address J. E. GREINER, Assistant Chief Engineer, B. & O. R. R., Mount Royal Station, Baltimore, Md. 22-3t

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50 Wheeled Scrapers, Nos. 1, 2½ and 3.
30 Drag Scrapers.
6 Plows.
30 1½-Yard Western Dump Cars (used about 3 months).
40 Tons 20-lb. Steel Rail.
3,000 Ties.
Blacksmith Outfit.
Rock Tools.
2 Stable Tents, 30 ft. × 42 ft. (nearly new).
1 Steel Range (Majestic No. 56).
Cooking Utensils and Bedding for 60 Men.
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35 Sets Harness.
Several Small Tents.
About 50 Pairs Double Trees & Single Trees.
20 Pairs 3-up Eveners.
Will sell under circumstances to suit purchaser, as we are going out of the Contracting Business.

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